BT² inc.

Environmental Engineering and Science

Site Investigation and Remedial Action Implementation Report Don Warren Property Donde, LLP 211 South Paterson Street Madison, Wisconsin

April 2002

Prepared For:

Donde, LLP
c/o Warren Heating and Air Conditioning
916 Williamson Street
Madison, Wisconsin 53703

Prepared By:

BT², Inc.
2830 Dairy Drive
Madison, Wisconsin 53718

Project #1952

I, Samuel L. Cooke III, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E8, Wis. Adm. Code; and that to the best of my knowledge all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Samuel L Cooke III
Signature

Principal / Senior Chemical Engineer
Title and P.E. Number E-27412

Stamp

I, Christopher H.V. Vahle, hereby certify that I am a hydrogeologist as the term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

C H.V. Vahle
Signature

Sr. Hydrogeologist
Title

April 11, 2002
Date

TABLE OF CONTENTS

TABLES

TABLE OF CONTENTS (CONTINUED)

FIGURES

APPENDICES

EXECUTIVE SUMMARY

Petroleum-contaminated soil was discovered at the Donde, LLP (Donde) property located at 211 South Paterson Street in Madison, Wisconsin, during a May 1999 geotechnical soil investigation. The property was being prepared for construction of a two-story office building. Nine Springs Environmental Consultants, Inc. (Nine Springs) was retained by Mr. Don Warren (Donde) to evaluate the petroleum contamination at the site.

Nine Springs supervised the completion of ten direct-push technology (DPT) soil borings during May 1999 and collected soil and groundwater samples from these DPT borings. Soil samples were reported with detectable concentrations of petroleum hydrocarbons in exceedance of the Wisconsin Department of Natural Resources (WDNR) NR 720 soil cleanup standards and in exceedance of the "Soil Cleanup Standards for Polycyclic Aromatic Hydrocarbons (PAHs), Interim Guidance," dated April 1997. Groundwater samples collected from the DPT borings also were reported with concentrations in exceedance of the WDNR enforcement standards (ES) and preventive action limits (PALs).

Based on these reported concentrations, Nine Springs discussed the results with Mr. Mike Schmoller (WDNR project manager), who stated that the WDNR would require that the petroleum-contaminated soil be remediated. Mr. Warren had plans to construct a two-story office building at the facility and wished to proceed with the project as quickly as possible. Nine Springs presented different options to Mr. Warren regarding possible remediation scenarios, costs for remediation, and potential reimbursement scenarios available under the Wisconsin Department of Commerce (Commerce) Petroleum Environmental Cleanup Fund Act (PECFA) program. Mr. Warren decided to continue with the building construction project by declaring the site a less than $80,000 PECFA site in a letter to Commerce dated June 21, 1999.

Excavation of petroleum-contaminated soil that would have been located under the proposed building was excavated and stockpile onsite during June 1999. The soil was stockpiled on site in order to maintain the building construction schedule and allow Nine Springs time to secure a landspreading facility and WDNR approval for landspreading.

In August 1999 a landspreading workplan was submitted to the WDNR by Soil Treatment Technologies, Inc. (STT) and subsequently approved by the WDNR. In September 1999, Nine Springs supervised the transportation and landspreading of the stockpiled soil and additionally excavated petroleum-contaminated soil. A total of 2,787 tons (1,990.6 yd^3) of petroleum-contaminated soil was landspread at two 2.5-acre facilities in Sun Prairie, Wisconsin. Landspreading Facility #1 accepted 1,688.6 tons

(1,206.1 yd^3) of petroleum-contaminated soil and Landspreading Facility #2 accepted 1,098.4 tons (784.5 yd^3) of petroleum-contaminated soil. Phase One of the remedial action excavation produced 1,322.3 tons (944.4 yd^3) of petroleum-contaminated soil. Phase Two of the remedial action excavation produced 1,464.7 tons (1,046.2 yd^3) of petroleum-contaminated soil.

Excavation confirmation soil samples were collected at the completion of each phase of the excavation. Phase One excavation confirmation soil samples were reported with concentrations of petroleum hydrocarbons below the WDNR cleanup standards. Phase Two excavation confirmation soil samples were reported with concentrations of petroleum hydrocarbons in exceedance of the WDNR cleanup standards in three of the five soil samples collected. One of the soil samples (SW-6'), that was reported with concentrations of polynuclear aromatic hydrocarbons (PAHs) in exceedance of the WDNR PAH Interim Guidance soil cleanup standards, was an estimated concentration due to the concentration falling between the level of detection (LOD) and level of quantification (LOQ). The remaining two samples (S2-6' and NW-6') were reported with WDNR soil cleanup exceedances. These samples were collected from the northeastern (NW-6') and southwestern (S2-6) portions of the excavation.

Four groundwater monitoring wells and one piezometer (MW-1 through MW-4 and PZ-1) were installed at the site in April 2001 and sampled in May 2001. The groundwater flow direction was determined to be towards the northwest at an approximate gradient of 0.03 ft/ft (150.9 ft/mile). Free product was measured in groundwater monitoring well MW-4 at a thickness of 0.40 feet. Groundwater sample analytical results reported WDNR ES exceedances in wells MW-1 and MW-4, with the exceedances being for PAH compounds.

1.0 INTRODUCTION

1.1 Purpose and Background

This Site Investigation and Remedial Action Implementation Report (SIRAIR) describes the site investigation and remedial action activities performed at the Donde, Don Warren Property located at 211 South Paterson Street in Madison, Wisconsin (**Figure 1**). The activities completed were undertaken at the request of the WDNR in response to the detection of petroleum hydrocarbons in the site soil during a geotechnical soil investigation completed in preparation of construction of a two-story office building. A brief historical survey of the property provided evidence of six aboveground storage tanks (ASTs), which appeared to have been operated by Shell Oil Company (Shell), having been located on the property. These ASTs were present on multiple Sanborn Insurance Maps dating from 1936 through 1984. Nine Springs was retained by Mr. Don Warren (Donde) to perform soil and groundwater sampling through DPT soil borings at the site after the geotechnical sampling indicated that petroleum hydrocarbons were present at the facility. In May 1999, Nine Springs supervised the advancement of ten DPT soil borings and collected soil and groundwater samples from the borings. Laboratory analyses of these samples indicated that petroleum hydrocarbons were present in the subsurface soils at concentrations that exceeded the WDNR residual contaminant levels (RCLs).

Due to the anticipated construction of a two-story office building on the property, Nine Springs, Mr. Mike Schmoller (WDNR), and Mr. Warren (Donde) discussed the course of action which would be required by the WDNR before closure could be issued for the soil contamination at the site. It was agreed that the petroleum hydrocarbon-impacted soil located at the site would have to be removed. The decision was made by Mr. Warren to pursue this project under the <$80,000 PECFA program, as this would give Mr. Warren the greatest flexibility for completing the remedial action and still anticipate meeting the construction deadlines. Details regarding the site investigation and remedial action implementation are presented below.

1.2 Physiographic Setting

1.2.1 Topography and Physiography

The approximate site elevation is 850 feet above mean sea level (amsl). The subject site is relatively flat with a gentle slope towards the southwest, towards Paterson Street. The subject site sits on the isthmus between Lakes Mendota and Monona. The ground surface at the subject site is primarily an asphalt parking lot and two-story building with some landscaping planters separating parking areas (**Figure 2**).

1.2.2 Geology

The site is located on the isthmus, approximately 2,700 feet southeast of Lake Mendota and 1,700 feet northwest of Lake Monona at an approximate elevation of 850 feet amsl. During the Wisconsin glaciation, the area was a glacial lake bottom. This environment gave the site its characteristics of being flat and poorly drained (Mickelson, 1983).

The soil has been mapped as the Colwood Silt Loam. This soil is characterized by being poorly drained and formed under deep and alternating layers of calcareous lake laid silt and fine sands. The soil has moderate permeability. The top 10 inches is a black silt loam underlain by a 25-inch-thick subsoil consisting of grayish brown clay loam, olive-gray sandy clay loam, and light brownish gray loamy very fine sand (Glocker, 1978).

The near-surface soils are underlain by glacial lacustrine sediments, including fine grained silt and clay with some sand and some peat accumulation (Mickelson, 1983). These unconsolidated materials overlie bedrock, present at about 170 feet below ground surface (bgs). Local well logs obtained from the Wisconsin Geological and Natural History Survey indicate that the uppermost bedrock consists of sandstone.

During the DPT soil borings, excavations, and groundwater monitoring well installations, black granular fill material was observed across the site in the shallow subsurface soils, underlain by silty, clayey sand and sandy silts and clays.

1.2.3 Hydrogeology

The groundwater flow in the area is influenced by the nearby lakes and nearby municipal wells. Groundwater was found to be at depths of 6 to 8 feet bgs during the May 1999 and April 2001 DPT soil borings and groundwater monitoring well installations, as well as the June and September 1999 excavations. Groundwater flow direction at the site was expected to be towards the southeast to southwest, towards Lake Monona. However, depth to groundwater measurements and top of casing elevations were used to determine that groundwater flow direction is towards the west-northwest at an approximate gradient of 0.03 ft/ft (176 ft/mile).

2.0 SITE INVESTIGATION FIELD ACTIVITIES

This section presents the activities completed during the initial site investigation activities at the site. Site investigation activities were interrupted in order to perform site soil remediation prior to evaluating

groundwater in order to maintain the building construction schedule and to avoid incurring additional costs for groundwater monitoring well replacement activities.

2.1 Direct-Push Technology Soil Sampling and Laboratory Analysis

On May 27, 1999, Nine Springs supervised the advancement of ten DPT soil borings (NSB-1 through NSB-10) (**Figure 2**) by Soils and Engineering Services, Inc. (SES) of Madison, Wisconsin. The DPT borings were completed by driving a lined, 2-foot-long stainless steel sampling tube into the subsurface. Continuous sampling was conducted at each boring location and the borings were completed to depths ranging from eight to 12 feet bgs. Sampling equipment was decontaminated between each boring using a tap water and Alconox solution followed by a tap water rinse. Field screening of the soil was conducted using a photo-ionization detector (PID) at 2-foot intervals. Soil from each interval was placed in a sealable plastic bag and allowed to reach ambient temperature for approximately 15 minutes. Volatile organic vapors were measured within the headspace of the plastic bag after the 15 minutes. Documentation of the field-screening results is included on the soil boring logs included as **Appendix C**. Soil boring logs also provide descriptions of the soil type, color, odor and moisture content and a Unified Soil Classification System (USCS) designation.

Soil samples were collected from the depth exhibiting the highest PID reading and from within the vadose zone. Each soil sample was transferred to laboratory-supplied glassware, properly weighed and/or preserved, labeled, and placed in a cooler on ice for transport to USFilter for laboratory analysis. Each sample was analyzed for gasoline range organics (GRO), diesel range organics (DRO), volatile organic compounds (VOCs), and PAHs. A copy of the laboratory report and chain-of-custody documentation for these samples is presented in **Appendix D**.

2.2 Direct-Push Technology Groundwater Sampling and Analysis

Nine Springs supervised the collection of five groundwater samples from five of the DPT soil borings. The groundwater samples were collected from borings NSB-1, NSB-3, NSB-6, NSB-8, and NSB-9 (**Figure 2**). A temporary polyvinyl chloride (PVC) well screen and blank was inserted into each soil boring where groundwater was to be collected. A small PVC bailer was used to retrieve the groundwater sample from each temporary well. The groundwater was decanted into properly preserved, laboratory-supplied glassware, labeled, and immediately place on ice in a cooler for transportation to USFilter for laboratory analysis. Each sample was analyzed for VOCs and PAHs by USFilter. A copy of the laboratory report and chain-of-custody documentation for these samples is included as **Appendix D**.

2.3 Borehole Abandonment and Documentation

Nine Springs supervised the proper abandonment of the soil borings by SES upon completion of all soil/groundwater sampling activities. Boreholes were abandoned by filling the hole with granular bentonite. The bentonite was then hydrated with potable water and the surface material replaced. Copies of the WDNR Form 3300-5B, Well/Drillhole/Borehole Abandonment forms are included as **Appendix C**.

2.4 Groundwater Monitoring Well Installation/Development/Sampling and Laboratory Analysis

BT² supervised the installation of four groundwater monitoring wells (MW-1 through MW-4) and one piezometer (PZ-1) by Badger State Drilling, Inc. (BSD) on April 9, 2001 (**Figure 2**). The wells were installed using hollow-stem auger (HSA) drilling techniques. The groundwater monitoring wells were installed to a depth of approximately 15 feet bgs. The wells were constructed using a 10-foot section of 2-inch diameter, 0.010-inch slot-size PVC well screen and a 5-foot section of blank casing material. Piezometer PZ-1 was completed to a depth of 30 feet bgs using a 5-foot section of 0.010-inch slot sized screen and 25 feet of blank 2-inch PVC well casing material. Wells MW-1, MW-2, MW-4, and PZ-1 were completed with a flush-mounted, traffic-rated, steel well box surrounded by concrete. Well MW-3 was completed with a steel stick-up protective cover. Each well is fitted with an expandable locking well plug and lock.

Each well was developed immediately following installation by surging with a bailer and purging with a submersible electric pump, with the exception of well MW-4. Well MW-4 was developed on May 2, 2001 by surging with a bailer and purging with a bailer. Free product was present prior to purging well MW-4 at a thickness of 0.40 feet. All wells purged dry and each well was purged dry a minimum of two times. All purge water was containerized on site in 55-gallon Department of Transportation (DOT)-approved steel drums. Copies of the well development forms are included as **Appendix E**.

On May 2, 2001, BT² personnel performed a groundwater monitoring and sampling event at the subject site. Depth to water was measured in each well and groundwater elevations were calculated from these measurements. A minimum of three well casing volumes of groundwater was purged from the well using a dedicated PVC bailer prior to sampling. Samples were retrieved using the dedicated bailer and a pre-cleaned bottom emptying device (BED) was used to decant the groundwater into the appropriate laboratory-supplied glassware. The samples were then properly labeled and placed on ice in a cooler for transport to Commonwealth Technology, Inc. (CTI) for laboratory analysis. Each sample was submitted for analysis of GRO, DRO, VOC, PAH, and dissolved lead. Copies of the laboratory report and chain-of-custody documentation are included as **Appendix F**.

3.0 REMEDIAL ACTION EXCAVATION AND LANDSPREADING ACTIVITIES

This section presents the activities completed for the remedial action excavation conducted during June and September 1999. The remedial action excavation was completed in two phases in order to assist meeting building construction deadlines and in order to allow time to secure approval for landspreading of the contaminated soil. A total of 1,990.6 yd^3 (2,787 tons) was excavated from the site and landspread at two separate WDNR-approved landspreading facilities.

3.1 Phase One Remedial Action Excavation, Stockpiling, and Backfilling Activities

The remedial action excavation Phase One activities were supervised by Nine Springs between June 29 and July 5, 1999. Popp Excavating, Inc. (Popp) performed the excavation activities at the site. A total of 944.4 yd^3 (1,322.3 tons) of contaminated soil was excavated and stockpile on plastic at the site. The stockpiled soil was then covered with plastic pending disposal at an approved landspreading facility. The stockpiled soil was not transported off site therefore no weights or load tickets were collected for this material at this time.

Phase One of the excavation was completed under the proposed footprint of the building (**Figure 3**) in order to facilitate the completion of the building construction. The excavation was completed to a depth of approximately 8 feet bgs. Groundwater was encountered at approximately 6.5 feet bgs.

After the excavation was completed, a total of five confirmation soil samples were collected (**Figures 3** and **5**). The samples were submitted to USFilter for analysis of total lead, GRO, DRO, PAHs, and petroleum volatile organic compounds (PVOCs). A copy of the laboratory report and chain-of-custody documentation is included as **Appendix G**.

On July 2, 2001, Nine Springs was contacted, prior to backfilling activities, to address the presence of groundwater and free product in the excavation base. Free product and a free product sheen was observed in the northeast portion of the excavation. Nine Springs contacted Eckmayer, Inc. (Eckmayer) to vacuum the water and free product from the excavation and transport the material to the Madison Metropolitan Sewage District (MMSD) for disposal. A total of 4,500 gallons of water/product was disposed of by Eckmayer at MMSD. The excavation was then backfilled by installing a layer of filter fabric on top of the native soil, placing 3-inch breaker run rock material on top of the filter fabric, and then covering the rock with another layer of filter fabric. The remainder of the excavation was backfilled and compacted with pit run sand.

As Popp was excavating the remainder of the building foundation/footing area, an area of multiple layers of railroad ties installed horizontally and perpendicular to one another was encountered. The railroad ties were coated with a thick, black, oil-like substance. Contractors at the site indicated that this was a typical construction method for road bases in the early development of Madison, when roads were being constructed in soft marsh land. Popp attempted to dispose of this material at the Waste Management (WM) Madison Prairie Landfill as construction debris; however, WM rejected this material as construction debris but would accept it at the biopile for remediation. Rather than transport the material back to Madison, Mr. Warren and Popp agreed to dispose of the material at the biopile. A total of two truckloads of material totaling 42.94 tons was disposed of at the Madison Prairie biopile on July 7, 1999. After this material was rejected by the landfill, any other contaminated soil was placed on the onsite contaminated soil stockpile for future landspreading disposal.

3.2 Phase Two Remedial Action Excavation and Backfilling Activities

In August 1999, Soil Treatment Technologies, Inc. (STT) prepared a Landspreading Workplan for two separate 2.5-acre landspreading facilities located in Sun Prairie, Wisconsin. A copy of the Landspreading Workplan and subsequent WDNR approval letter is included as **Appendix B**.

On September 14 through 16, 1999, Nine Springs supervised the removal of the stockpiled soil generated from Phase One of the remedial action excavation (944.4 yd^3 or 1,322.3 tons) and the additional excavation of approximately 1,046.2 yd^3 (1,464.7 tons) of contaminated soil from the site. The excavation was completed to an approximate depth of 8 feet bgs and groundwater was encountered at approximately 6.5 feet bgs.

In order to determine the amount of soil excavated from the subject site, random truckloads of contaminated soil were directed to the R. G. Huston Co., Inc. scale located in Cottage Grove, Wisconsin. A total of 135 loads of contaminated material was transported to the landspreading facilities in Sun Prairie, Wisconsin. Of these, 48 loads were weighed at a certified scale on their way to the Sun Prairie landspreading facilities. The average weight of the loads was calculated on a daily basis in order to guide the landspreading activities. The total number of loads per day was multiplied by the average weight of the loads in order to estimate the total amount of contaminated soil excavated, transported, and landspread. A copy of the weight tickets and manifest tickets are included as **Appendix H**.
On September 16, 1999, Nine Springs collected five confirmation soil samples from the excavation sidewalls and submitted them to USFilter for analysis of total lead, GRO, DRO, PVOCs, and PAHs. A copy of the laboratory report and chain-of-custody documentation is included as **Appendix G**.

3.3 Landspreading Methodologies and Field Activities

As stated in **Section 3.2**, STT submitted a Landspreading Workplan to the WDNR on August 19, 1999. The landspreading application was completed for two single-application facilities, each being 2.5 acres in size. A copy of the STT Landspreading Workplan and subsequent WDNR approval is included as **Appendix B**.

The total weight of petroleum contaminants (combined GRO and DRO) to be landspread at the two facilities was estimated at 11,280 pounds, based on an estimated total of 2,400 yd^3 of petroleum-contaminated soil. Facility #1 was estimated for 5,997 pounds (1,276 yd^3) of total petroleum hydrocarbons (GRO and DRO combined) and Facility #2 was estimated for 5,283 pounds (1,124 yd^3) total petroleum hydrocarbons. The total weight of benzene estimated to be spread at Facility #1 was 3.8 pounds and at Facility #2 was 3.4 pounds. A maximum spread rate of 4 inches per acre, equaling 540 yd^3 of contaminated soil per acre, was used to comply with mass loading limits. It was calculated that this application thickness would yield 2,538 pounds of total hydrocarbons per acre, which is below the 3,000 pounds per acre maximum as established by the WDNR. The total amount of benzene to be spread at both facilities was calculated to be 7.2 pounds, which is well below the WDNR maximum of 300 pounds per landspreading site. Calculations determining these mass loading limits were provided in the STT Landspreading Workplan, a copy of which is included as **Appendix B.**

On September 14 through 16, 1999, STT personnel supervised the landspreading of contaminated soil at the landspreading facilities. Single truckload size piles of contaminated soil were deposited in specific areas of the landspreading facility and spread to the 4-inch maximum thickness by a bulldozer. STT personnel collected the weight tickets from the trucks as the loads were deposited at the site and determined the area that the contaminated soil was to be spread by the bulldozer. Bulldozer landspreading and subsequent rock-picking activities were completed by Popp personnel. A total of 1,206.1 yd^3 (1,688.6 tons) of contaminated soil was landspread at Facility #1. A total of 784.5 yd^3 (1,098.5 tons) was landspread at facility #2.

4.0 SITE INVESTIGATION RESULTS

4.1 DPT Soil Sample Analytical Results

Ten soil samples were collected from the vadose zone in ten soil borings (NSB-1 through NSB-10). The location of the soil borings is presented on **Figure 2**. The soil samples were analyzed for GRO, DRO,

VOCs, and PAHs. Each sample was collected from a depth of 6 feet bgs or 7 feet bgs. The laboratory results were compared to the Wisconsin Administrative Code (WAC) Chapter NR 720 Soil Cleanup Standards and the WDNR Soil Cleanup Levels for Polycyclic Aromatic Hydrocarbons (PAHs) Interim Guidance document dated April 1997 (Interim Guidance). The most stringent Cleanup Standards were used for comparison.

Soil cleanup standard exceedances were reported for GRO, DRO, benzene, naphthalene, benzo(a)anthracene, benzo(b)flouranthene, benzo(a)pyrene, dibenzo(ah)anthracene, indeno(cd)pyrene, and phenanthrene. The exceedances were reported in all the soil samples with the exception of NSB-7(6') and NSB-9(6'). The chromatogram for the GRO and DRO analyses for samples collected from NSB-1 through NSB-5 were reported by the analytical laboratory to have characteristics of fuel oil and not as gasoline or diesel fuel. The chromatogram for the sample collected from NSB-6 was reported as having a pattern indicative of a petroleum hydrocarbon heavier than diesel, such as motor oil or hydraulic oil. The sample collected from NSB-10 was reported as not being characteristic for diesel fuel with a raised baseline outside of the DRO window. A summary of the laboratory results and the WDNR soil cleanup standard exceedances are presented in **Table 1**. A copy of the laboratory report and chain-of-custody documentation is included in **Appendix D**.

4.2 DPT Groundwater Sample Analytical Results

A total of five groundwater samples were collected from soil borings NSB-1, NSB-3, NSB-6, NSB-8, and NSB-9. The groundwater samples were submitted for analysis of VOCs and PAHs. The reported results were compared with the WAC Chapter NR 140 PALs and ES. In addition, the proposed ES and PAL standards from the Interim Guidance was used for comparison for the PAH compound acenaphthylene.

Results indicated that ES exceedances were detected in the groundwater samples from NSB-1 (naphthalene, benzo(b)fluoranthene, and chrysene), NSB-3 (naphthalene, in both the VOC and PAH analysis methodologies), NSB-6 (chrysene), NSB-8 (naphthalene), and NSB-9 (benzo(a)pyrene, benzo(b)fluoranthene, and chrysene). In addition, a PAL exceedance was reported for benzo(a)pyrene in the sample collected from NSB-1. A summary of laboratory results and ES and PAL exceedances is presented as **Table 2**. A copy of the laboratory report and chain-of-custody documentation is included as **Appendix D**.

4.3 Groundwater Elevations and Flow Direction

BT² surveyed the wells and piezometer into a benchmark established at a fire hydrant located close to the site. The average depth to groundwater at the site was 10.45 feet bgs. The groundwater flow direction

was found to be to the northwest at an approximate gradient of 0.03 ft/ft (150.9 ft/mile). Groundwater elevation contours for the May 2, 2001 groundwater measurement event is presented on **Figure 6**. Free product was measured in well MW-4 with a thickness of 0.40 feet on May 2, 2001. No other wells had measurable free product present on May 2, 2001. Free product in MW-4 was subsequently measured on September 7, 2001 to be 0.54 feet. A summary of free product thickness' and groundwater elevation data is presented in **Table 4**.

4.5 Groundwater Monitoring Well Sample Analytical Results

BT² collected groundwater monitoring well samples on May 2, 2001. Each well was purged of a minimum of three well casing volumes prior to sampling. The groundwater samples were submitted for analysis of DRO, GRO, dissolved lead, VOCs, and PAHs. Naphthalene was reported above the WDNR ES for the VOC scan in wells MW-1 and MW-4. Well MW-1 was reported with WDNR ES exceedances for acenaphthylene, chrysene, fluoranthene, naphthalene (PAH scan), and pyrene. Well MW-4 was reported with WDNR ES exceedances for fluoranthene, fluorene, and pyrene. No other WDNR ES exceedances were reported from any other wells sampled. WDNR PAL exceedances were reported for total trimethylbenzenes, benzene, and fluorene in well MW-1. Well MW-3 was reported with a WDNR PAL exceedance for chloromethane. No other WDNR PAL exceedances were reported in any of the wells sampled. A summary of the groundwater monitoring well analytical data is presented in **Table 5**. A copy of the laboratory report and chain-of-custody documentation is included as **Appendix F**. The groundwater monitoring well sample analytical data is presented on **Figure 7**.

5.0 REMEDIAL ACTION EXCAVATION AND LANDSPREADING FACILITIES CONFIRMATION SOIL SAMPLING RESULTS

5.1 Phase One Remedial Action Excavation Confirmation Sample Results

Five confirmation soil samples were collected by Nine Springs personnel on June 29 and 30, 1999. The samples were collected from areas indicated on **Figure 3** and **Figure 5**. The samples were identified as NE-6', N-6', E-6', SE-6', and S-6'. The samples were collected from the sidewalls of the excavation from within the vadose zone at an approximate depth of 6 feet bgs. Each sample was analyzed for GRO, DRO, and VOCs, PAHs, and total lead. The samples were reported with total lead concentrations ranging from 1.47 milligrams per kilogram (mg/kg) or parts per million (ppm) to 4.09 mg/kg. A concentration of DRO was reported for sample NE-6' with a concentration of 9.16 mg/kg. The laboratory reported that the chromatogram for this sample was characteristic for fuel oil/diesel #1 or #2, jet fuel, kerosene, and aged or degraded diesel. No other excavation confirmation soil samples were reported with a detected GRO or

DRO concentration. Toluene was reported in sample NE-6' and MTBE was reported in samples N-6' and S-6'. Sample NE-6' was also reported with detectable concentrations of anthracene, fluorene, 1-methylnaphthalene, 2-methylnaphthalene, and phenanthrene. Sample SE-6' was reported with detectable concentrations of benzo(a)pyrene, benzo(a)fluoranthene, and fluorene. No other detectable concentrations were reported for any of the excavation confirmation soil samples. The concentrations reported did not exceed any of the NR720 or PAH Interim Guidance soil cleanup standards. The results of the laboratory analyses are presented in **Table 3**. A copy of the laboratory report and chain-of-custody documentation is included as **Appendix G**.

The soil sample collected from the "clean" overburden soil stockpile (Clean Stockpile) was analyzed for PVOCs and PAHs. All PVOC constituents were reported with detectable concentrations in the Clean Stockpile soil sample. The benzene concentration exceeded the NR 720 Table 1 soil cleanup concentration levels.

5.2 Phase Two Remedial Action Excavation Confirmation Sample Results

Five confirmation soil samples were collected by Nine Springs personnel on September 16, 1999. The samples were collected from areas indicated on **Figure 4** and **Figure 5**. The samples were identified as S2-6', SW-6' W-6', W2-6', and NW-6'. The samples were collected from the sidewalls of the excavation from within the vadose zone at an approximate depth of 6 feet bgs. Each sample was analyzed for GRO, DRO, VOCs, and PAHs. Sample NW-6' was reported with a GRO concentration of 165 mg/kg. This concentration exceeds the WDNR NR 720 soil cleanup standard of 100 mg/kg. No other samples reported detectable concentrations of GRO. DRO was reported in samples S2-6', W2-6', W-6', and NW-6' at concentrations of 12.9 mg/kg, 17.3 mg/kg, 35 mg/kg, and 376 mg/kg, respectively. The concentration of DRO in NW-6' exceeded the NR 720 soil cleanup standard of 100 mg/kg. The reported concentrations of benzo(a)pyrene and dibenzo(a,h)anthracene in S2-6' exceeded the PAH Interim Guidance soil cleanup standards for the direct-contact: non-industrial pathway. Other PAH analytes were reported above laboratory detection limits; however, none of these reported concentrations exceeded any of the WDNR soil cleanup standards.

Sample SW-6' reported benzo(a)pyrene and dibenzo(a,h)anthracene at concentrations of 0.0091 mg/kg and 0.00885 mg/kg, respectively. These concentrations exceeded the PAH Interim Guidance soil cleanup standards for the direct-contact: non-industrial pathway. The concentrations of benzo(a)pyrene and dibenzo(a,h,)anthracene were reported by the laboratory as estimated concentrations due to the concentration falling between the LOD and LOQ. Other PAH analytes were reported above laboratory

detection limits; however, none of these reported concentrations exceeded any of the WDNR soil cleanup standards.

Detectable concentrations of ethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, acenaphthene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, chrysene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene were reported in the samples; however, none of the detectable concentrations exceeded the WDNR NR 720 or PAH Interim Guidance soil cleanup standards.

A summary of the analytical results is presented in **Table 3**. A copy of the laboratory report and chain-of-custody documentation is included in **Appendix G**.

5.3 STT Landspreading Facilities Confirmation Soil Sampling Results

On June 23, 2001, STT personnel completed confirmation soil sampling activities at the two landspreading facilities. A total of 12 sampling points were established at landspreading Facility No. 1 with two samples collected from each point from depths of four to six inches bgs and two to three feet bgs. Each sample was submitted to US Filter for analysis of DRO, GRO, PVOCs, and PAHs. Eight of the 24 soil samples were reported with concentrations of DRO and/or PAHs which exceeded the WDNR residual contaminant levels (RCLs).

A total of seven sampling points were established at landspreading Facility No. 2 with two samples collected from each point from depths of four to six inches bgs and two to three feet bgs. Each sample was submitted to US Filter for analysis of DRO, GRO, PVOCs, and PAHs. Six of the 14 soil samples were reported with concentrations of DRO and/or PAHs which exceeded the WDNR RCLs.

A copy of the STT report submitted to the WDNR on November 22, 2001 is included as **Appendix I**.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the site investigation and remedial action excavation activities, the following conclusions have been made:

- Petroleum-contaminated soil was discovered at the site during a geotechnical investigation. Nine Springs supervised the completion of ten DPT soil borings and collected soil samples and groundwater samples from the DPT soil borings in May 1999.
- Analytical results of the soil samples reported WDNR NR 720 and PAH Interim Guidance soil cleanup standard exceedances at the site. Soil sample NSB-4(6') had a DRO result of 8,450 mg/kg and naphthalene of 14,530 µg/kg, for example.
- In order to maintain building construction deadlines, the site was declared a less than $80,000 PECFA site by the property owner.
- Nine Springs supervised the first phase of contaminated soil excavation at the site in June 1999. The amount of soil removed during Phase One of the remedial action excavation was not estimated at that time in order to reduce costs associated with hauling the material from the site to a scale and back. The soil was stockpiled on site until landspreading facilities could be acquired and a landspreading application could be approved by the WDNR.
- Construction activities at the site during July 1999 resulted in an additional 42.94 tons of petroleum-contaminated soil being disposed of at the WM Madison Prairie Biopile.
- In August 1999, a landspreading workplan was prepared by STT and approved by the WDNR. The landspreading workplan established two landspreading facilities each being 2.5 acres in size (Landspreading Facility #1 and Landspreading Facility #2).
- In September 1999, Phase Two of the remedial action excavation was conducted at the site. In addition, the stockpiled soil from Phase One of the remedial action excavation was transported to the approved landspreading facilities.
- A total of 2,787 tons (1,990.6 yd^3) of petroleum-contaminated soil was excavated and disposed of at the landspreading facilities. Landspreading Facility #1 received a total of 1,688.6 tons (1,206.1 yd^3) and Landspreading Facility #2 received a total of 1098.4 tons (784.5 yd^3).
- A total of 4,500 gallons of petroleum-contaminated water was transported by Eckmayer to MMSD treatment facility as a result of excavation dewatering activities.
- The confirmation soil sample, NW-6', collected from the Phase Two remedial action excavation, reported GRO and DRO concentrations exceeding the WDNR NR 720 soil cleanup standards.
- The confirmation soil samples, S2-6' and SW-6', collected from the Phase Two remedial action excavation, reported concentrations of benzo(a)pyrene and dibenzo(a,h)anthracene exceeding the PAH Interim Guidance, direct-contact: non-industrial pathway soil cleanup standard. The concentrations in SW-6' were reported as estimated concentrations due to the concentration falling between the LOD and LOQ.
- STT collected a total of 38 soil samples from the two landspreading facilities in June 2001. The samples were submitted to US Filter for analysis of GRO, DRO, PVOCs, and PAHs. A total of

14 of the 38 samples were reported with concentrations of DRO and/or PAHs which exceeded their respective RCLs.

- In April 2001, BT² supervised the installation of four groundwater monitoring wells and one piezometer at the site. Free product was measured at a thickness of 0.40 feet in well MW-4. No product was measured in any other monitoring well or piezometer at the site.
- Groundwater was calculated to flow towards the northwest at an approximate gradient of 0.03 ft/ft (150.9 ft/mile) on May 2, 2001.
- Groundwater samples collected on May 2, 2001 reported concentrations of PAH petroleum constituents in wells MW-1 and MW-4 that exceed the WDNR ES.
- Free product was measured with a thickness of 0.54 feet on September 7, 2001 in MW-4.

Prior to any further work being conducted, BT² and Mr. Warren request a meeting to discuss the site issues. Mr. Warren has information regarding background contamination present surrounding his property. Mr. Warren would like to have closure of the site be considered now; however, during our meeting we can discuss the following issues and possible future activities:

- Soil contamination that is present in the northeastern and southwestern portion of the Phase Two remedial action excavation (soil samples NW-6' and S2-6') should be documented in the form of a deed restriction or in the WDNR Geographic Information System (GIS) database.
- Soil contamination present in the west-southwestern portion of the excavation (SW-6') exceeds the WDNR PAH Guidance cleanup level; however, due to the sample being collected from a depth of 6 feet bgs, there does not appear to be a direct contact threat for this soil. In addition, the surface of the area surrounding SW-6' is now asphalt parking lot and is acting as an engineered control for reducing the potential for direct contact exposure.
- As indicated in the November 2001 STT report, additional confirmation soil samples should be collected from the two landspreading facilities. Only those locations identified as having exceeded the RCL requirement will be sampled. It is recommended that the samples be collected in the Fall of 2002.
- Free product removal from well MW-4 can be initiated. The free product removal activities would either be completed by the owner or BT². If the owner decides to conduct the free product removal, then BT² will train the owner in proper removal techniques and documentation. Free product would be stored on site until a sufficient volume has been collected for cost-effective disposal to be arranged. The WDNR would be provided with reports on a quarterly basis documenting the free product removal and disposal activities.

- A sample of the free product could be obtained and submitted to a laboratory for analysis of VOCs and PAHs. In addition, characterization of the free product could be attempted in order to determine the age and/or type of product present in monitoring well MW-4.
- Additional groundwater monitoring well(s) could be installed downgradient of MW-1 and MW-4 to delineate the extent of groundwater contamination. This may require installation of off site monitoring wells to the northwest of MW-1 and MW-4.
- Groundwater could be monitored for two additional quarters and the results reported to the WDNR after the second sampling event.
- Additional evaluation of the results could be provided after the quarterly groundwater sampling activities are completed (e.g., need for downgradient monitoring wells).

Please call us to discuss setting up a meeting where the above issues can be discussed between Mr. Warren, BT^2 and you.

TABLES

TABLE 1
DIRECT - PUSH TECHNOLOGY SOIL SAMPLES ANALYTICAL RESULTS

Donde, LLP
Don Warren Property
211 South Paterson Street
Madison, Wisconsin
BT^2 Project #1952

Sample I.D.	NSB-1	NSB-2	NSB-3	NSB-4	NSB-5	NSB-6	NSB-7	NSB-8	NSB-9	NSB-10	WDNR	NR 746.06	NR 746.06
Date Collected	05/27/99	05/27/99	05/27/99	05/27/99	05/27/99	05/27/99	05/27/99	05/27/99	05/27/99	05/27/99	Cleanup Standards**	Table 1 Free Product Indicator	Table 2 Direct Contact Standard
Sample Depth (ft bgs)	7	7	6	6	6	6	6	6	6	6			
PID	584	3,228	4,218	2,914	37.8	37.4	0.0	12.4	0.0	0.0	--	--	--
Total Lead (mg/kg)	8.03	1.83	**90.1**	37	35.3	--	--	--	**64.3**	**57.3**	50	--	--
GRO (mg/kg)	**478**	**540**	**327**	**501**	**263**	22.3	<6.1	<6.1	<7.7	7.16	100	--	--
DRO (mg/kg)	**4,220**	**4,600**	**2,280**	**8,450**	**1,040**	**283**	<6.1	7.75	<7.7	**224**	100	--	--
Volatile Organic Compounds (VOCs) **(µg/kg)**													
Benzene	<62	<117	**232**	<229	<571	<29	<31	<30	<38	<27	**5.5**	**8,500**	**1,100**
Ethylbenzene	<125	<234	1,396	<459	1,208	40	<31	<30	<38	31	2,900	4,600	--
Toluene	<125	<234	<247	<459	<1,143	<29	<31	<30	<38	40	1,500	38,00	--
o-Xylene & Styrene	<125	<234	1,335	<459	<1,143	<29	<31	<30	<38	<27			
m- & p-Xylenes	206	444	1,021	<459	<1,143	34	<31	<30	<38	53	**4,100**	**42,000**	--
MTBE	<125	<234	<247	<459	<1,143	135*	104*	155*	176*	115*	--	--	--
1,3,5-Trimethylbenzene	1,463	2,984	<247	1,210	<1,143	120	<31	<30	<38	40	--	**11,000**	--
Isopropylbenzene	<125	4,164	<247	<459	<1,143	<29	<31	<30	<38	<27	--	--	--
Naphthalene	**12,634**	**34,508**	**17,731**	**14,530**	**6,127**	<29	<31	30	<38	53	**400**	**2,700**	--
n-Propylbenzene	594	3,585	2,782	2,148	1,374	116	<31	<30	<38	43	--	--	--
n-Butylbenzene	6,070	20,386	11,564	<459	3,550	<29	<31	<30	<38	50	--	--	--
1,2,4-Trimethylbenzene	<125	<234	<247	4,533	3,219	<29	<31	<30	<38	45	--	**83,000**	--
sec-Butylbenzene	4,321	13,302	8,160	4,576	3,507	384	<31	<30	<38	85	--	--	--
tert-Butylbenzene	<125	5,609	5,182	1,823	<1,143	115	<31	<30	<38	<27	--	--	--
p-Isopropyltoluene	<125	<234	5,182	<459	<1,143	<29	<31	<30	<38	<27	--	--	--
Polynuclear Aromatic Hydrocarbons (PAHs) **(µg/kg)**													
Acenaphthene	<3.6	<34.0	369	248	334	44.6	<3.5	<3.5	<4.4	33.9	**38,000**	--	--
Acenaphthylene	<1.2	<12	<1.2	<11	<1.1	<1.1	<1.2	<1.2	<1.5	<1.1	700	--	--
Anthracene	<4	<37	<3.9	<37	<3.7	<3.7	<3.9	<3.9	<4.9	95	**3,000,000**	--	--
Benzo(a)anthracene	<1.7	<16	<1.7	<16	<1.6	<1.6	3.63	6.52	4.89	**190**	**88**	--	--
Benzo(b)fluoranthene	25.5	<28	<3	<28	**131**	<2.7	11.0	18.4	9.3	**345**	**88**	--	--
Benzo(k)fluoranthene	27.2	<28	<3	<28	129	<2.7	3.69	8.15	4.04	117	880	--	--
Benzo(a)pyrene	**30.5**	<48	<5.1	<47	**114**	**16.5**	6.52	**11.4**	8.73	**309**	**8.8**	--	--
Benzo(ghi)perylene	22.7	<37	<3.9	<37	86.9	13.1	12.0	17.0	<4.9	221	1,800	--	--
Chrysene	<2	<19	<2	<18	<1.8	<1.8	<2.0	17.3	6.65	161	8,800	--	--
Dibenzo(ah)anthracene	**25.6**	<40	<4.2	<39	**9.9**	<3.9	<4.2	**34.3**	<5.2	**242**	**8.8**	--	--
Fluoranthene	<3.2	<30	<3.2	<30	<3	<3	23.8	56.8	45.2	828	500,000	--	--
Fluorene	924	700	2,360	2,060	1,840	278	<3.3	<3.3	<4.1	42.5	100,000	--	--
Indeno(1,2,3-cd)pyrene	21.5	**130**	<3.5	<32	**92**	12.4	14.0	12.1	6.55	**220**	**88**	--	--
Naphthalene	35.7	<14	108	**2,740**	129	<1.4	<1.5	14.2	<1.8	30.9	400	**2,700**	--
Phenanthrene	**5,230**	**2,350**	**3,660**	**2,710**	<2.5	<2.5	16.4	34.9	30.5	488	**1,800**	--	--
Pyrene	<4.6	<43	<4.6	<42	<4.2	<4.2	7.41	21.5	<5.7	174	500,000	--	--
1-Methylnaphthalene	296	9,240	5,930	10,300	3,510	<4.2	<4.5	32.8	<5.7	35.7	23,000	--	--
2-Methylnaphthalene	<5.4	8,850	641	15,100	577	<4.9	<5.3	54.2	<6.6	61.4	20,000	--	--

NOTES:

Cleanup Standards = generic soil cleanup standards set by the WDNR and found in NR 720 or in the Interim Guidance for Soil Cleanup Levels for PAHs, dated April 1997.

** - The Cleanup Standards listed are the most stringent for each compound. The Interim Guidance for PAHs provides three residual contaminant levels for each compound and the most stringent level is used for comparison of each PAH compound.

ft bgs = feet below ground surface.

PID = photoionization detector.

MTBE = methyl tertiary butyl ether. (*) This contaminant was detected in the methanol blank at a concentration of 68.0 µg/kg.

mg/kg = milligrams per kilogram or parts per million (ppm).

< = less than listed detection limits.

µg/kg = micrograms per kilogram or parts per billion (ppb).

Bold = concentration exceeds the WDNR cleanup standards from either NR 720 or the Interim Guidance for PAH cleanup.

I:\1952\tablee\sfleinv.xls (soil analytical)

-- = analysis not requested.

TABLE 2
DIRECT - PUSH TECHNOLOGY GROUNDWATER SAMPLE ANALYTICAL RESULTS

Donde, LLP
Don Warren Property
211 South Paterson Street
Madison, Wisconsin
BT^2 Project #1952

		Volatile Organic Compounds (VOCs) (µg/L)														Polynuclear Aromatic Hydrocarbons (PAHs) (µg/L)												
Sample ID	Date	Benzene	n-Butylbenzene	s-Butylbenzene	t-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes m+p	Xylenes o	Acenaphthylene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Chrysene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
NSB-1	05/27/99	<1.0	8.96	<2.5	<2.5	<2.5	5.01	<2.5	**58.1**	5.50	<2.5	<2.5	<2.5	<2.5	<2.5	<0.1	0.135	*0.187*	**0.248**	0.128	**0.293**	0.727	<0.07	0.086	30.6	10.2	*16.4*	1.66	0.656
NSB-3	05/27/99	<40	384	488	177	<100	251	161	**1,700**	283	<100	<100	<100	<100	<100	<30.0	<15.0	<12.0	<12.0	<18.0	<15.0	<18	**600**	<21.0	3,190	2,710	**728**	1,210	<33.0
NSB-6	05/27/99	<0.2	2.31	4.14	0.769	<0.5	0.754	<0.5	1.86	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.05	<0.04	<0.04	<0.06	**2.64**	4.31	<0.07	<0.07	<0.09	<0.08	<0.08	2.53	3.78
NSB-8	05/27/99	<1.0	26.4	30.2	<2.5	<2.5	<2.5	13.4	**52.1**	5.80	<2.5	<2.5	<2.5	<2.5	<2.5	<0.1	<0.05	<0.04	<0.04	<0.06	<0.05	<0.06	5.39	<0.07	86.0	<0.8	<0.08	9.18	<0.11
NSB-9	05/27/99	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	0.717	<0.5	<0.5	<0.5	0.128	0.171	**0.274**	**0.347**	0.164	**0.416**	0.983	<0.07	0.135	0.418	0.277	0.385	1.20	0.916
ES		5	–	–	–	700	–	–	40	–	1,000	480		10,000		--	–	0.2	0.2	–	0.2	400	400	–	–	–	40	–	250
PAL		0.5	–	–	–	140	–	–	8	–	200	96		1,000		–	–	0.02	0.02	–	0.02	80	80	–	–	–	8	–	50

Notes:

Refer to the laboratory analytical report for laboratory comments regarding these samples.

ES = Enforcement Standard (as per WDNR NR 140).

PAL = Preventive Action Limit (as per WDNR NR 140).

– = No ES or PAL established.

Italic = PAL exceedance.

Bold = ES exceedance.

PAHs and VOCs not listed were below detection limits in all samples.

TABLE 3
EXCAVATION CONFIRMATION SOIL SAMPLES ANALYTICAL RESULTS

Donde, LLP
Don Warren Property
211 South Paterson Street
Madison, Wisconsin
BT² Project #1952

	Excavation No. 1 Samples						Excavation No. 2 Samples					
Sample ID	NE-6'	N-6'	E-6'	SE-6'	S-6	Clean Stockpile	S2-6'	SW-6'	W2-6'	W-6'	NW-6'	WDNR Cleanup Standards*
Date Sampled	6/29/99	6/29/99	6/29/99	6/30/99	6/30/99	6/30/99	9/16/99	9/16/99	9/16/99	9/16/99	9/16/99	
Sample Depth (ft bgs)	6	6	6	6	6	--	6	6	6	6	6	
PID (ppm)	10.7	18.3	22.3	62	15.8	10.7	2.5	32.9	2.5	89.3	79.6	--
Lead (mg/kg)	2.07	1.76	1.88	1.47	4.09	NA	NA	NA	NA	NA	NA	50
GRO (mg/kg)	<5.8	<5.8	<6.0	<5.4	<6.3	NA	<10	<7	<9.9	<8	**165**	100
DRO (mg/kg)	9.16	<5.8	<6.0	<5.4	<6.3	NA	12.9	<7	17.3	35	**376**	100
PVOCs (mg/kg)												
Benzene	<0.029	<0.029	<0.030	<0.027	<0.031	**0.064**	<0.050	<0.035	<0.049	<0.040	<0.152	**0.0055**
Ethylbenzene	<0.029	<0.029	<0.030	<0.027	<0.031	0.050	<0.050	<0.035	<0.049	<0.040	0.164	**2.9**
Toluene	0.036	<0.029	<0.060	<0.054	<0.031	0.151	<0.050	<0.035	<0.049	<0.040	<0.152	**1.5**
m- & p-Xylenes	<0.029	<0.029	<0.030	<0.027	<0.031	0.087	<0.050	<0.035	<0.049	<0.040	<0.152	
o-Xylenes	<0.029	<0.029	<0.030	<0.027	<0.031	0.077	<0.050	<0.035	<0.049	<0.040	<0.152	**4,100**
MTBE	<0.029	0.115	<0.030	<0.027	0.121	0.112	<0.050	<0.035	<0.049	<0.040	<0.152	--
1,2,4-Trimethylbenzene	<0.029	<0.029	<0.030	<0.027	<0.031	0.080	<0.050	<0.035	<0.049	0.053	0.256	--
1,3,5-Trimethybenzene	<0.029	<0.029	<0.030	<0.027	<0.031	0.027	<0.050	<0.035	<0.049	0.050	0.508	--
PAHs (mg/kg)*												
Acenaphthene	<0.034	<0.0033	<0.0035	<0.0031	<0.0036	0.211	<0.0058	<0.0041	<0.0057	0.106	0.0373	**38**
Anthracene	0.0154	<0.0037	<0.0038	<0.0034	<0.004	0.389	0.0508	0.00774	<0.0063	<0.0051	<0.0049	**3000**
Benzo(a)anthracene	<0.0016	<0.0016	<0.0017	<0.0015	<0.0018	**0.939**	0.0354	0.0096	<0.0028	<0.0022	<0.0021	**0.088**
Benzo(a)pyrene	<0.0048	<0.0047	<0.0049	0.00499	<0.0052	**0.957**	**0.0708**	**0.0091****	<0.0081	<0.0066	<0.0062	**0.0088**
Benzo(b)fluoranthene	<0.0028	<0.0028	<0.0029	0.0421	<0.003	**1.13**	0.0804	0.0150	<0.0047	<0.0039	<0.0036	**0.088**
Benzo(k)fluoranthene	<0.0028	<0.0028	<0.0029	<0.0026	<0.003	0.401	0.0232	0.00456	<0.0047	<0.0039	<0.0036	**0.88**
Benzo(ghi)perylene	<0.0037	<0.0037	<0.0038	<0.0034	<0.004	0.381	0.0532	0.0126	<0.0063	<0.0051	<0.0049	**1.8**
Chrysene	<0.0019	<0.0018	<0.0019	<0.0017	<0.002	0.791	0.0416	0.0110	<0.0032	<0.0026	<0.0024	**8.8**
Dibenzo(a,h)anthracene	<0.004	<0.0039	<0.0041	<0.0036	<0.0043	**0.568**	**0.512**	**0.00885****	<0.0067	<0.0055	<0.0052	**0.0088**
Fluoranthene	<0.003	<0.003	<0.0031	<0.0028	<0.0033	3.90	0.198	0.0190	0.0142	<0.0042	<0.0039	**500**
Fluorene	0.0335	<0.0031	<0.0032	0.00598	<0.0034	0.146	0.00624	<0.0038	<0.0053	0.122	0.188	**100**
Indeno(1,2,3-cd)pyrene	<0.0033	<0.0032	<0.0034	<0.003	<0.0035	**0.640**	0.0650	0.0178	<0.0055	<0.0045	<0.0042	**0.088**
1-Methyl-naphthalene	0.0440	<0.0043	<0.0044	<0.004	<0.0047	0.0352	0.00846	0.0068	<0.0073	0.137	1.61	**23**
2-Methyl-naphthalene	0.0625	<0.005	<0.0052	<0.0046	<0.0054	0.0252	0.0132	0.0099	<0.0085	0.0119	0.839	**20**
Naphthalene	<0.0014	<0.0014	<0.0014	<0.0013	<0.0015	<0.0012	<0.0024	0.00382	<0.0024	0.0266	0.252	**0.4**
Phenanthrene	0.112	<0.0025	<0.0026	<0.0024	<0.0028	**2.24**	0.125	0.0184	0.00830	<0.0035	0.0697	**1.8**
Pyrene	<0.0043	<0.0043	<0.0044	<0.004	<0.0047	2.78	0.177	0.0164	0.0289	<0.0059	<0.0056	**500**

NOTES:
ft bgs = feet below ground surface.
PID = photoionization detector readings.
GRO = gasoline range organics.
DRO = diesel range organics.
PVOC = Petroleum Volatile Organic Compounds.
MTBE = methyl tertiary-butyl ether.
PAHs = polynuclear aromatic hydrocarbons.
WDNR = Wisconsin Department of Natural Resources.
NA = Not Analyzed.

- = No Cleanup Standards established.
mg/kg = milligrams per kilogram or parts per million (ppm).
< = less than listed detected limits.
Bold = Exceeds WDNR Cleanup Standards.
* = The Cleanup Standards listed for the PAH compounds are the most stringent for each compound. The Interim Guidance for PAHs provides three residual contaminant levels for each compound and the most stringent level is used for comparison for each PAH compound.
** = Reported concentration is estimated due to the concentration being between the level of detection (LOD) and level of quantification (LOQ).

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA

Donde, LLP
Don Warren Property
211 South Paterson Street
Madison, Wisconsin
BT^2 Project #1952

Well ID	Date Measured	TOC Elevation (feet AMSL)	Depth to Product (feet below TOC)	Depth to Water (feet below TOC)	Product Thickness (ft)	Corrected Groundwater Elevation (feet AMSL)
MW-1	5/2/01	857.03	--	10.83	--	846.20
MW-2	5/2/01	856.00	--	9.94	--	846.06
MW-3	5/2/01	858.91	--	10.55	--	848.36
MW-4	5/2/01 9/7/01	856.10	10.08 8.75	10.48 9.29	0.40 0.54	845.95 847.25
PZ-1	5/2/01	856.07	--	10.16	--	845.91

Notes:
TOC = top of casing.
AMSL = above mean sea level (approximate).
The top of casing elevation was established utilizing a City of Madison fire hydrant elevation and adding 850 feet to that elevation (from a USGS topographic map elevation) which was used as the benchmark elevation.

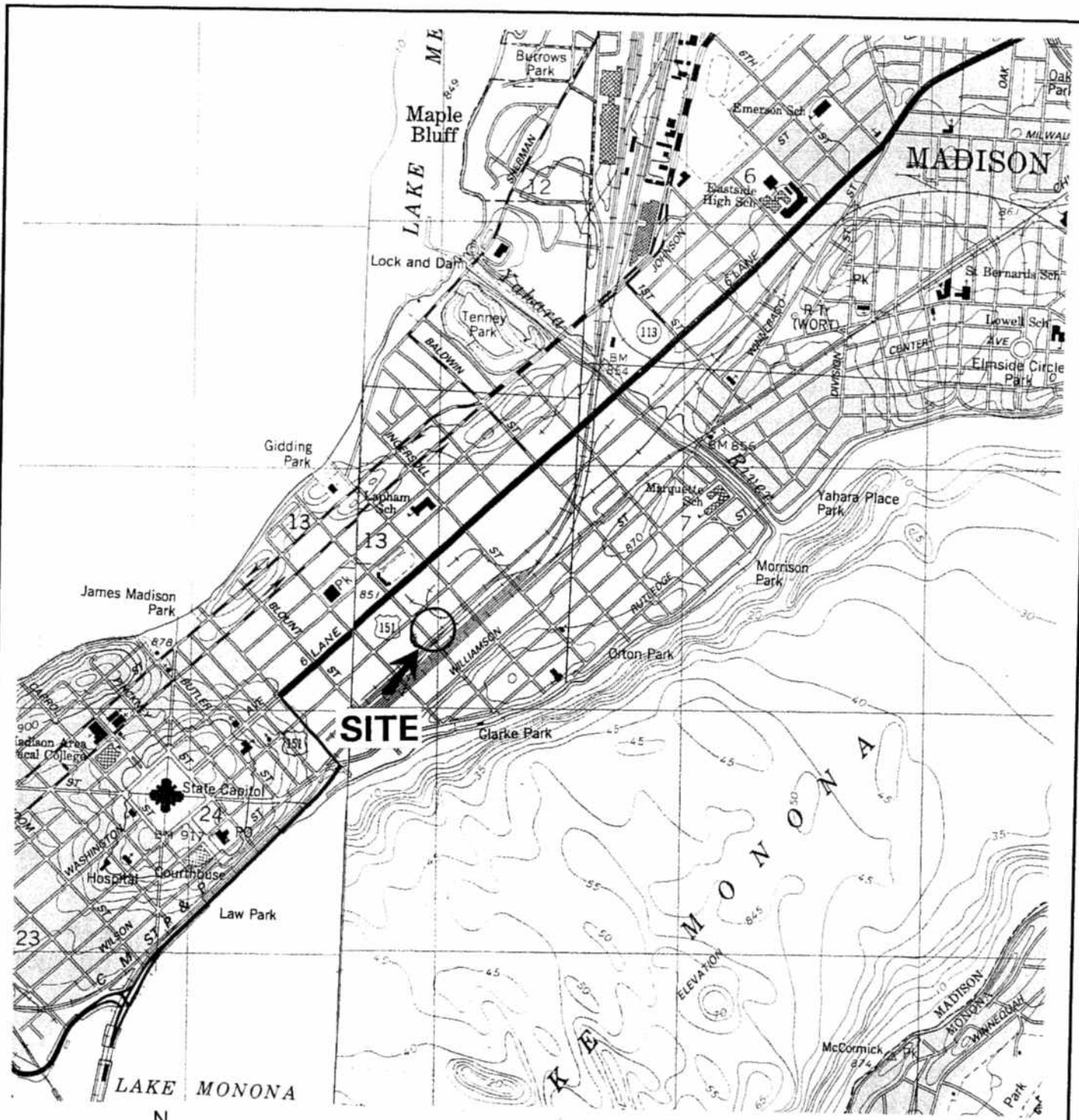
TABLE 5
SUMMARY OF GROUNDWATER MONITORING WELL SAMPLES ANALYTICAL RESULTS

Donde, LLP
Don Warren Property
211 South Paterson Street
Madison, Wisconsin
BT² Project #1952

Sample ID	Date Sampled	DRO (µg/l)	GRO (µg/l)	Dissolved Lead (µg/l)	Volatile Organic Compounds (VOCs) (µg/l)															Polynuclear Aromatic Hydrocarbons (PAHs) (µg/l)											
					1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloromethane	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	MTBE	Naphthalene	n-Propylbenzene	Toluene	m- & p-Xylenes	o-Xylenes	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene*	Anthracene	Benzo(a)anthracene	Chrysene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
MW-1	5/2/01	150,000	2,700	<1.4	*91*	*59*	*1.5*	87	20	5.1	<1.5	16	35	19	<5.5	180	39	9.0	26	0.80	1,700	1,900	200	280	30	<0.30	78	430	*310*	2.1	410	670	1,600
MW-2	5/2/01	11,000	1,900	<1.4	1.1	1.3	<0.10	3.3	1.6	<0.10	<0.30	<0.10	0.38	0.84	<1.1	3.0	0.80	0.46	<0.20	<0.10	<1.9	6.6	<1.9	<2.1	<0.36	5.8	<0.30	9.8	6.1	<0.17	<2.1	1.6	21
MW-3	5/2/01	<21	<14	<1.4	<0.20	<0.30	<0.10	<0.40	<0.30	<0.10	*0.47***	<0.10	<0.10	<0.20	<1.1	<0.70	<0.30	<0.10	<0.20	<0.10	<0.19	0.29	<0.19	<0.21	<0.036	0.017	<0.030	0.076	<0.091	<0.017	<0.21	0.12	0.22
MW-4	5/2/01	130,000	1,800	<1.4	<1.0	<1.5	<0.50	29	13	3.7	<1.5	<0.50	17	<1.0	<5.5	47	20	<0.50	<1.0	<0.50	2,100	910	<95	<110	<18	<1.5	<15	710	490	<8.5	<110	530	2,300
PZ-1	5/2/01	460	35	<1.4	<0.20	<0.30	<0.10	0.58	0.44	<0.10	<0.30	<0.10	0.36	<0.20	<1.1	<0.70	<0.30	<0.10	<0.20	<0.10	0.87	0.72	<0.19	0.25	<0.036	<0.0030	<0.030	0.50	<0.091	<0.017	<0.21	0.26	1.3
WDNR NR140 ES		--	--	15	480		5	--	--	--	3	700	--	--	60	40	--	1,000	10,000		--	--	--	5	3,000	--	0.2	400	400	--	40	--	250
WDNR NR140 PAL		--	--	1.5	96		0.5	--	--	--	0.3	140	--	--	12	8	--	200	1,000		--	--	--	1	600	--	0.02	80	80	--	8	--	50

Notes:
µg/l = micrograms per liter or parts per billion (ppb).
MTBE = methyl tertiary-butyl ether.
< = less than listed laboratory detection limit.
WDNR NR 140 ES = enforcement standard from WDNR Chapter NR 140.
WDNR NR 140 PAL = preventive action limit from WDNR Chapter NR 140.
-- = no standard established.
Italicized = concentration exceeds the PAL.
Bold = concentration exceeds the ES.
* - A proposed ES and PAL was used for comparison. The proposed ES and PAL was taken from the WDNR Soil Cleanup Levels for Polycyclic Aromatic Hydrocarbons (PAHs) Interim Guidance, dated April 1997.
** - The reported concentration is between the level of detection (LOD) and level of quantification and is therefore an estimated concentration.

FIGURES

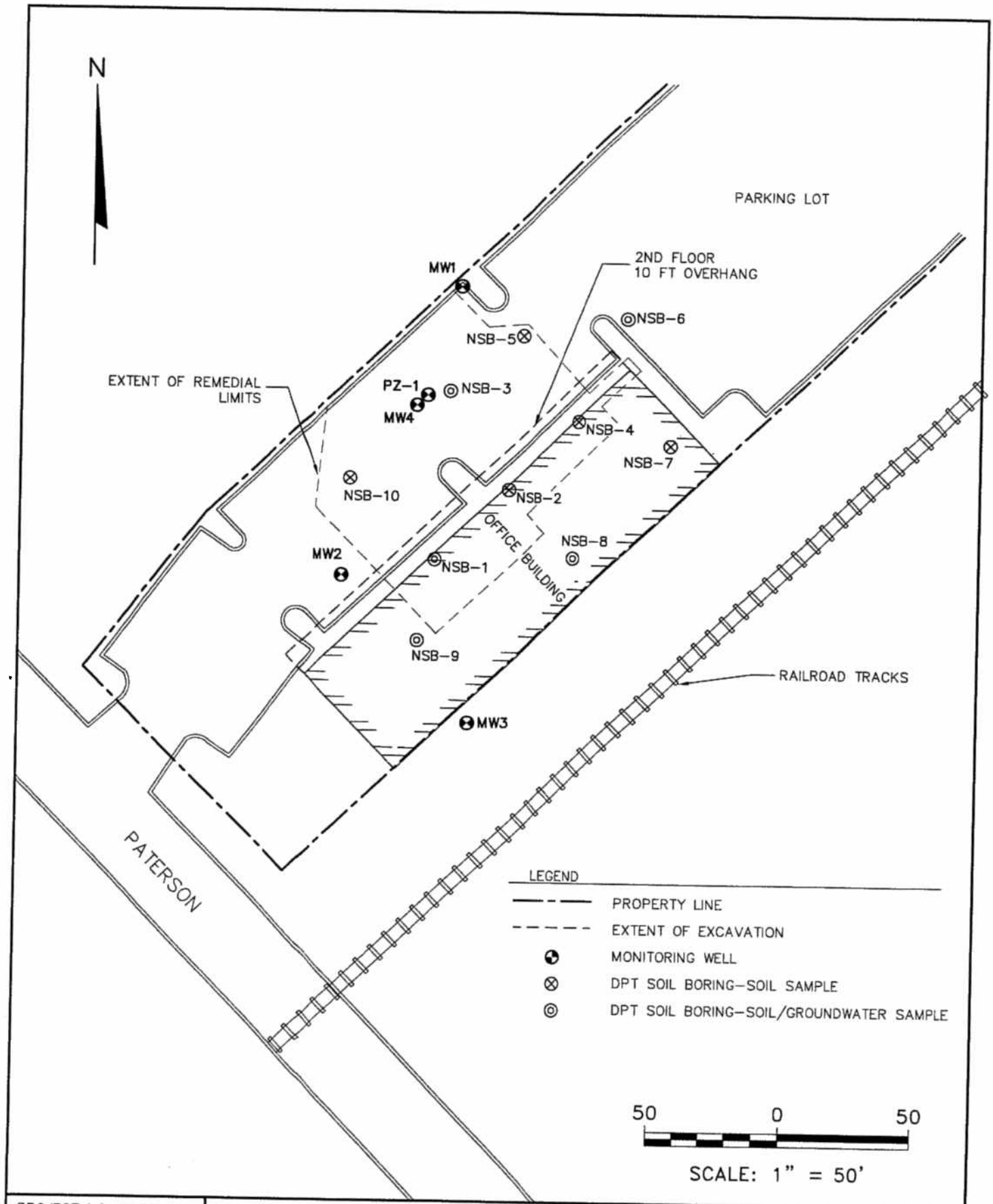


MADISON EAST AND WEST QUADRANGLES
WISCONSIN– DANE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 AND SW/4 MADISON 15' QUADRANGLES
SCALE 1" = 2000'

PROJECT NO.	1952
DRAWN BY:	CS
CHECKED BY:	CV
DRAWN:	06/27/01
J:\1952\FIG1.DWG	

FIGURE 1
SITE LOCATION MAP
DON WARREN PROPERTY
211 S. PATERSON STREET
MADISON, WISCONSIN

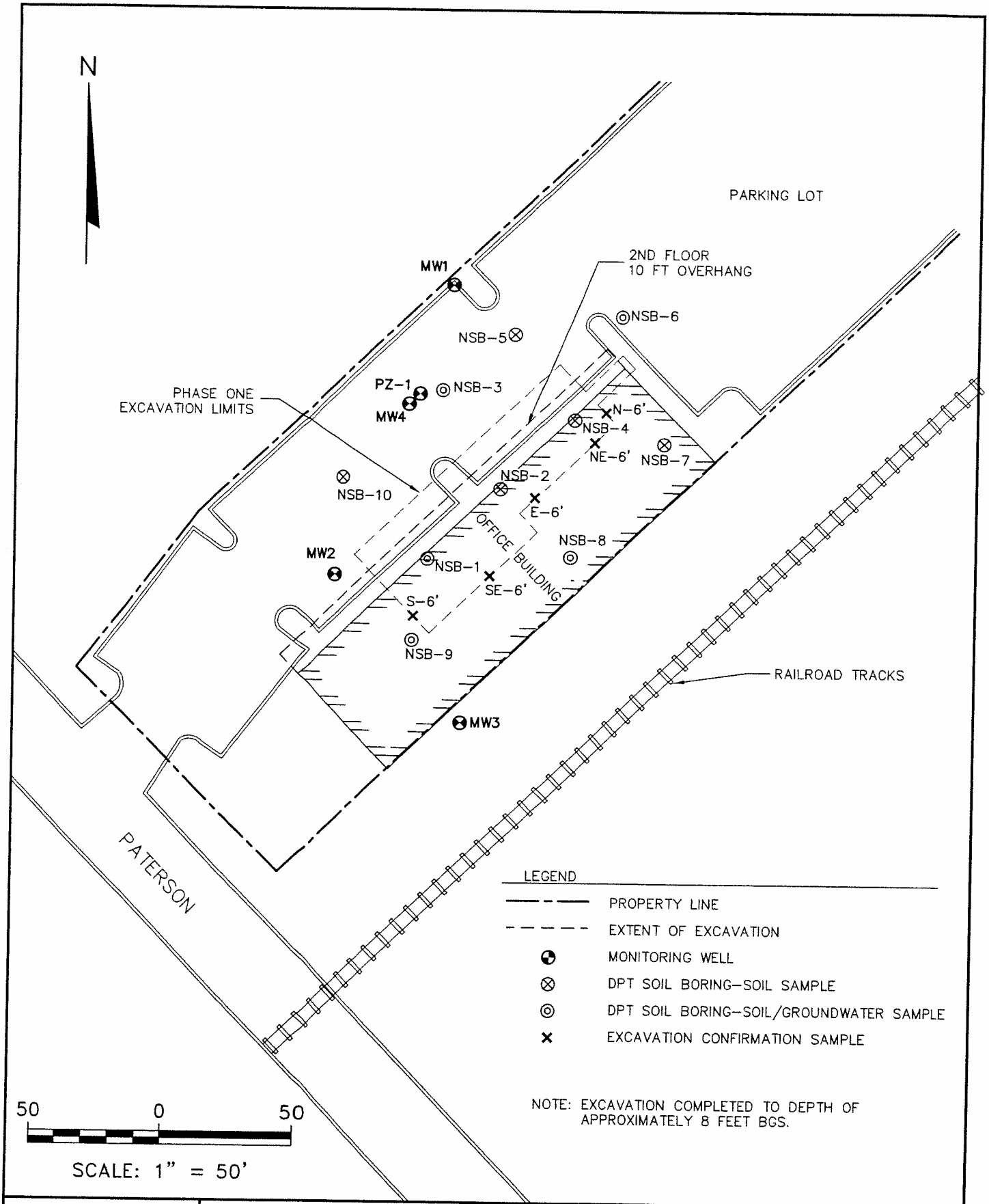
BT² inc.



PROJECT NO.	1952
DRAWN BY:	CS
CHECKED BY:	CV
DRAWN:	05/08/01
REVISED:	10/11/01

FIGURE 2
SITE LAYOUT MAP
DONDE LLP PROPERTY
211 SOUTH PATERSON
MADISON, WISCONSIN

J:\1952\Site.dwg, 10/12/01 09:18:34 AM

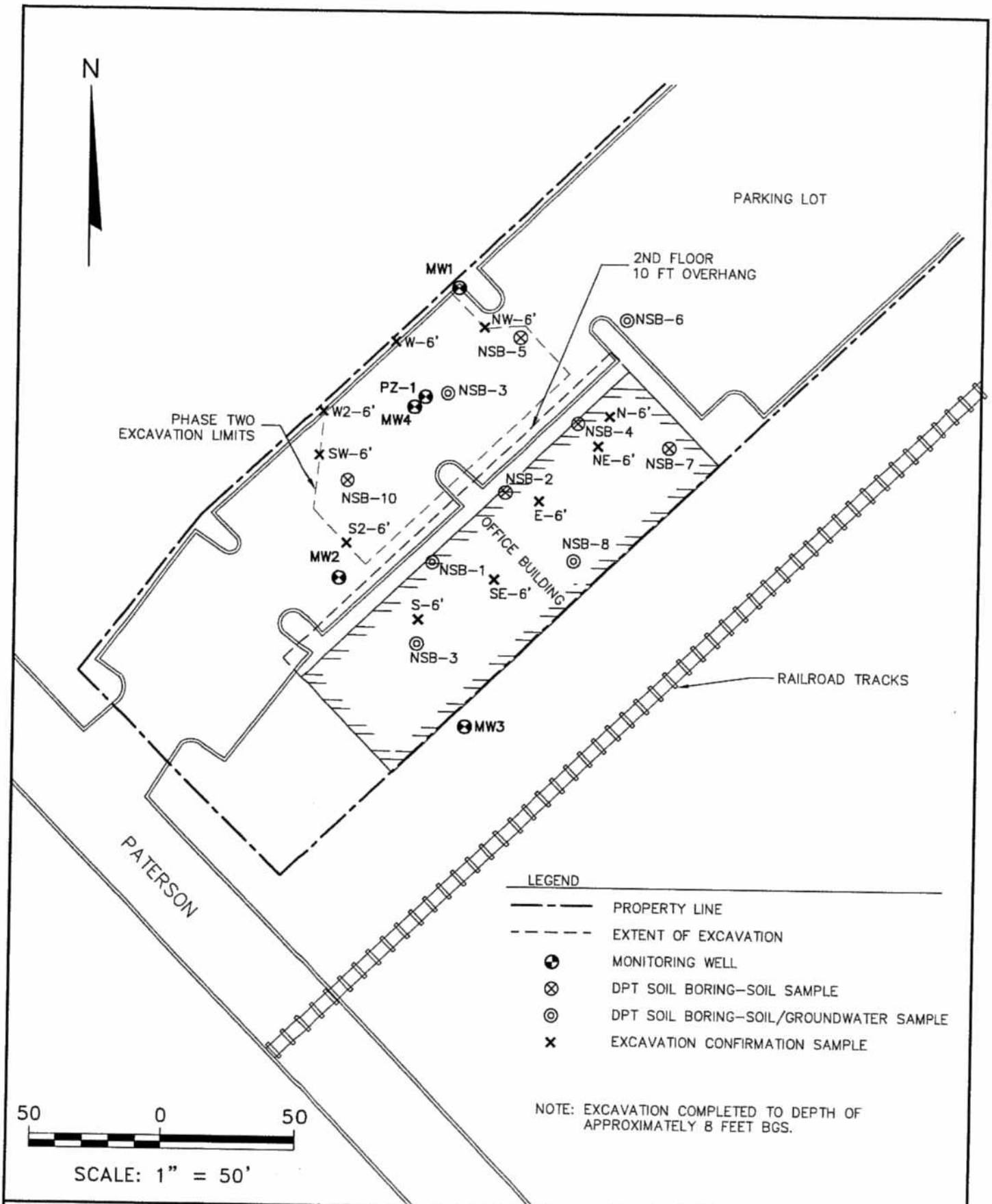


PROJECT NO.	1952
DRAWN BY:	CS
CHECKED BY:	CV
DRAWN:	05/08/01
REVISED:	10/11/01

FIGURE 3
PHASE ONE EXCAVATION LIMITS-JUNE 1999
DONDE LLP PROPERTY
211 SOUTH PATERSON
MADISON, WISCONSIN

BT² inc.

J:\1952\EXCAV_LIMITS.dwg, 10/23/01 08:58:44 AM



PROJECT NO.	1952
DRAWN BY:	CS
CHECKED BY:	CV
DRAWN:	05/08/01
REVISED:	10/08/01

FIGURE 4
PHASE TWO EXCAVATION LIMITS–SEPTEMBER 1999
DONDE LLP PROPERTY
211 SOUTH PATERSON
MADISON, WISCONSIN

BT² inc.

J:\1952\EXCAV2_LIMITS.dwg, 10/08/01 11:35:34 AM

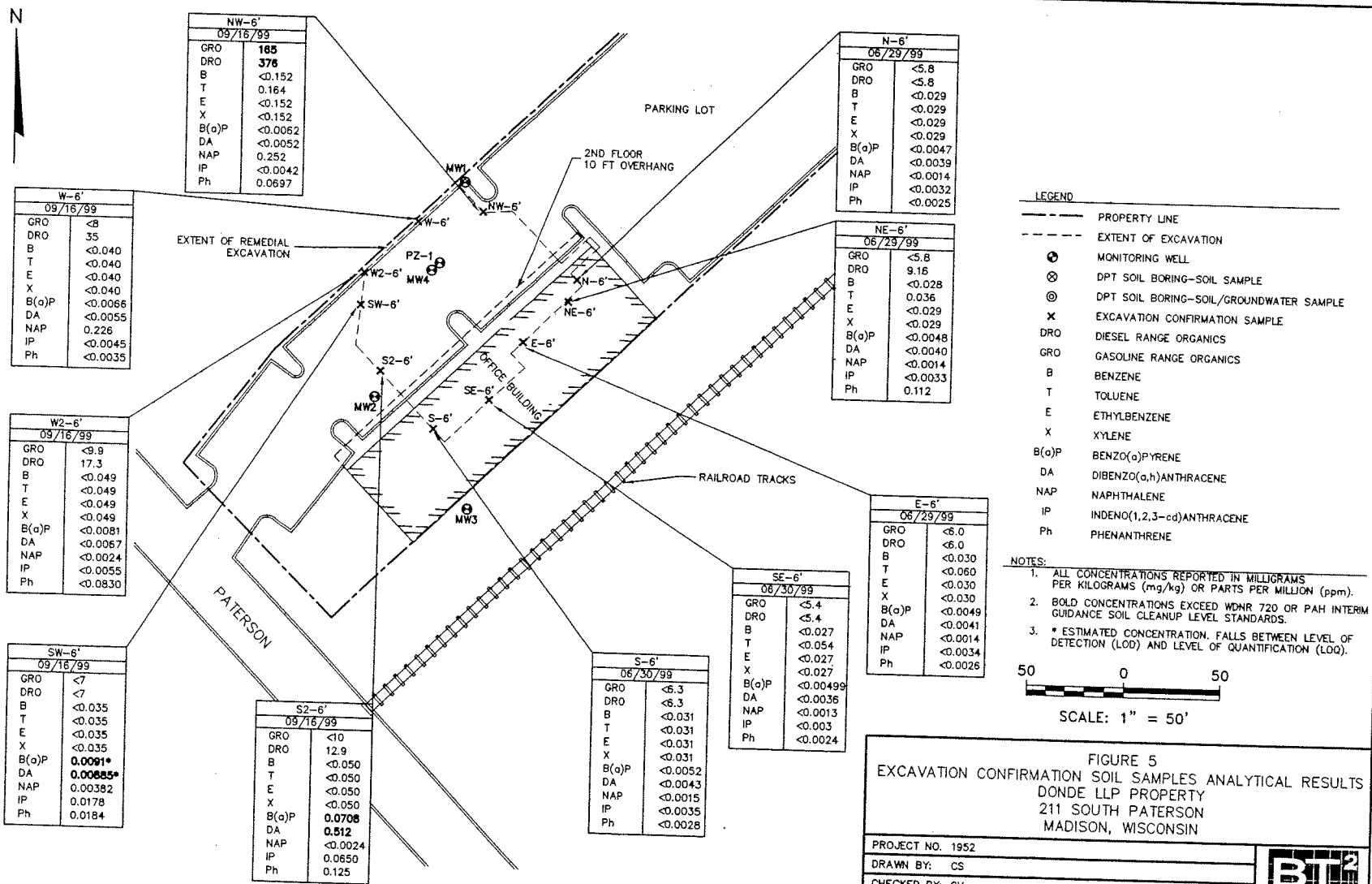
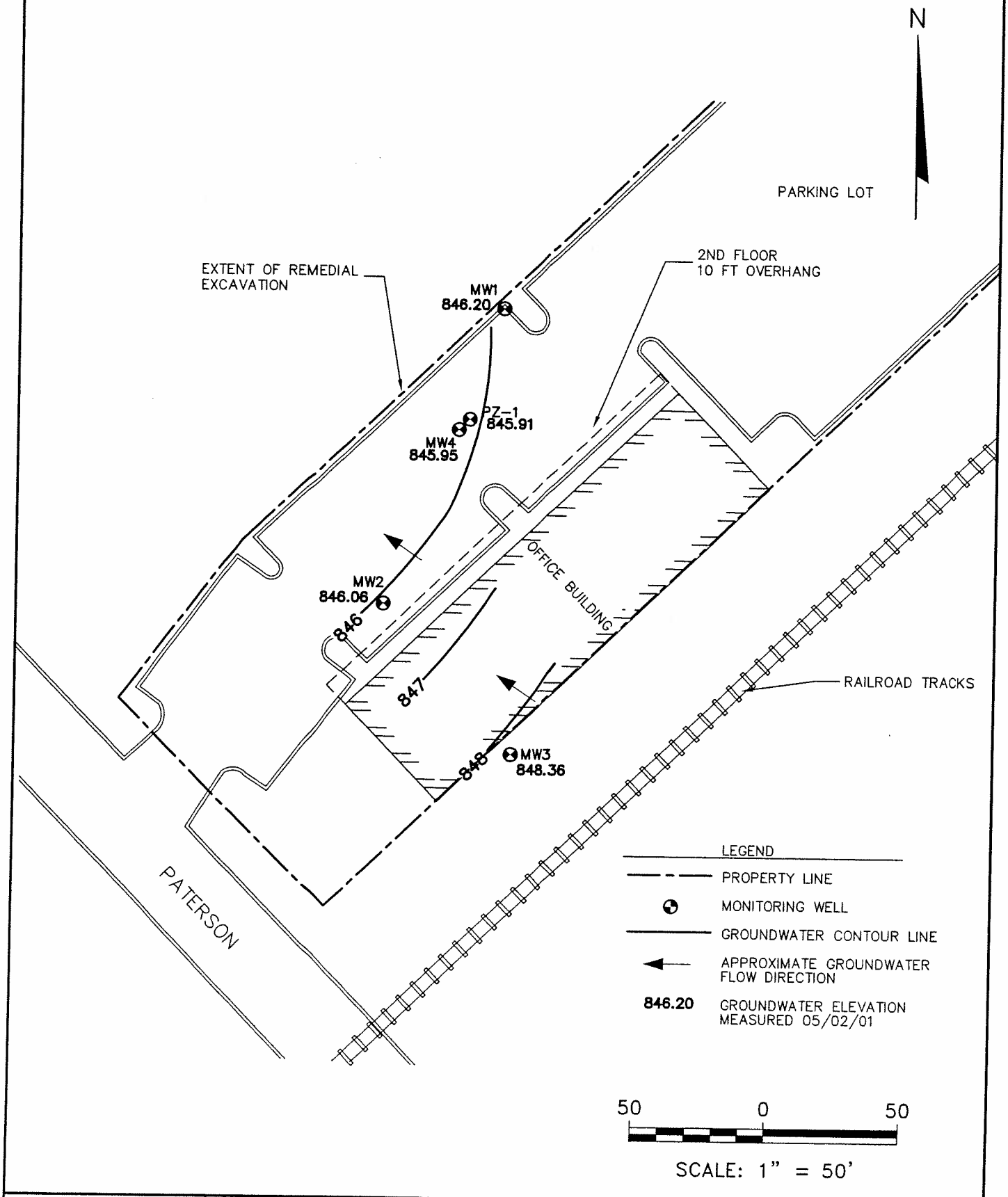


FIGURE 5
EXCAVATION CONFIRMATION SOIL SAMPLES ANALYTICAL RESULTS
DONDE LLP PROPERTY
211 SOUTH PATERSON
MADISON, WISCONSIN

PROJECT NO.	1952
DRAWN BY:	CS
CHECKED BY:	CV
DRAWN:	05/08/01
REVISED:	10/23/01

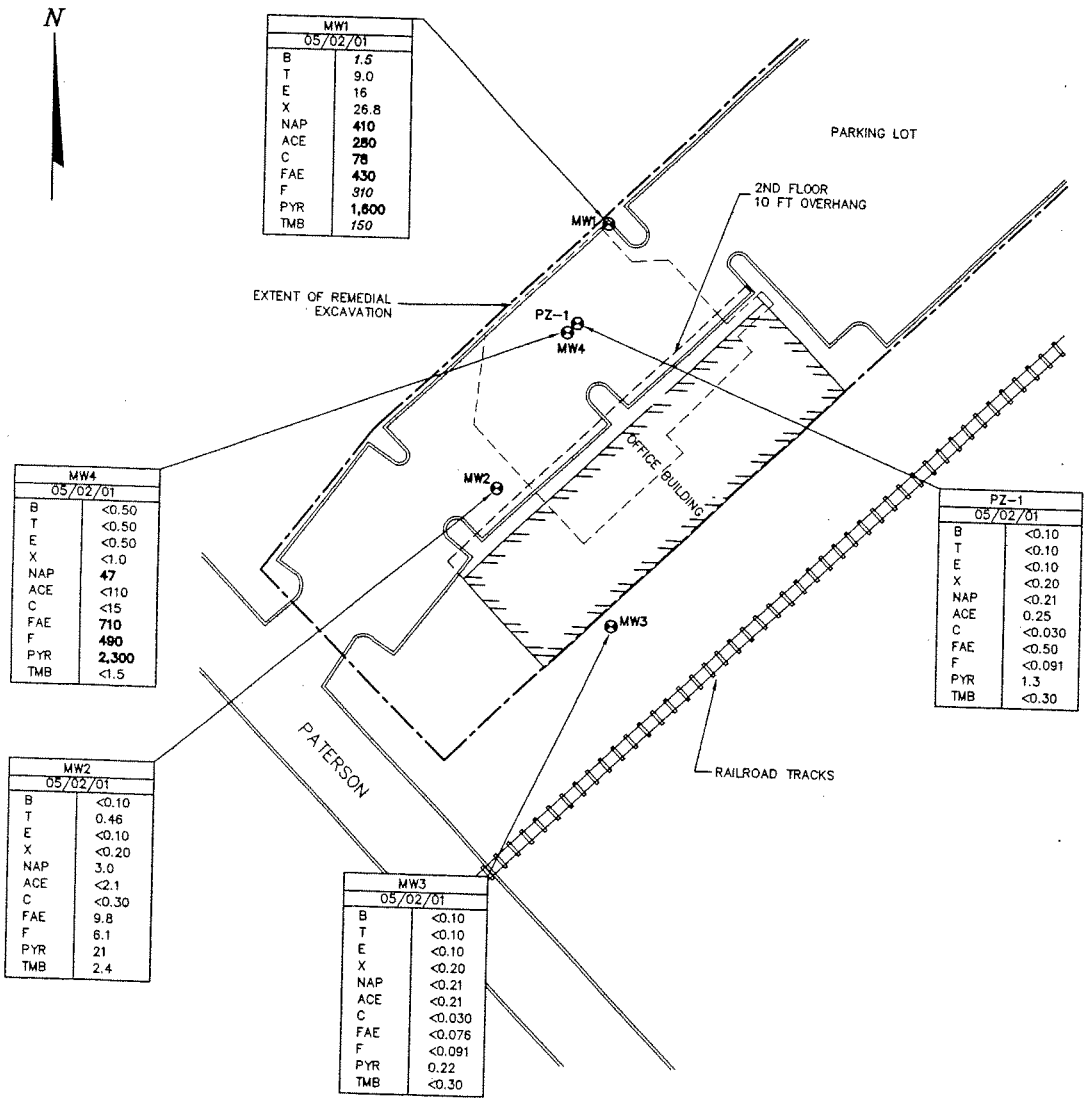
BT2 inc



PROJECT NO.	1952
DRAWN BY:	CS
CHECKED BY:	CV
DRAWN:	05/08/01
REVISED:	10/08/01

FIGURE 6
GROUNDWATER ELEVATION CONTOUR MAP – MAY 2, 2001
DONDE LLP PROPERTY
211 SOUTH PATERSON
MADISON, WISCONSIN

BT² inc.



LEGEND

———	PROPERTY LINE
- - - -	EXTENT OF EXCAVATION
⊕	MONITORING WELL
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
NAP	NAPHTHALENE
ACE	ACENAPHTHYLENE
C	CHRYSENE
FAE	FLUORANTHENE
F	FLUORENE
PYR	PYRENE
TMB	TOTAL TRIMETHYLBENZENES

NOTES:

1. ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (ug/l) OR PARTS PER BLLION (ppb).
2. BOLD CONCENTRATIONS EXCEED WDNR 140 ES STANDARDS.
3. *ITALICIZED* CONCENTRATIONS EXCEED WDNR PAL STANDARDS.

50 0 50

SCALE: 1" = 50'

FIGURE 7
GROUNDWATER ANALYTICAL CONCENTRATIONS – MAY 2, 2001
DONDE LLP PROPERTY
211 SOUTH PATERSON
MADISON, WISCONSIN

PROJECT NO.	1952
DRAWN BY:	CS
CHECKED BY:	CV
DRAWN:	05/08/01
REVISED:	10/23/01

BT² inc

J:\1952\DWGFILES.dwg, 10/23/01 10:17:23 AM

APPENDIX C

Soil Boring Logs and Borehole Abandonment Forms

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ■ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE LLP		NSB-1

Drilling Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: RICH Last Name:	05/27/1999 (m m d d y y y y)	05/27/1999 (m m d d y y y y)	DIRECT-PUSH
Firm: SOILS ENGINEERING SERVICES, INC.			

Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	DANE	13	MADISON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	GRAVEL				0.0						
			2.5	SILTY SAND/CLAY - BLACK - MOIST CLAY - SOME SLIGHTLY LAMINATED SAND - STIFF - DAMP - STRONG H.C. ODOR.	CL			12.4						
								179.9						
			5.0					584						
				SILTY SAND - BROWN - MOIST MED GRAINED SAND - LITTLE SILT - DENSE - DAMP - STRONG H.C. ODOR	SM			532						
			7.5	SILTY CLAY - GREENISH GRAY - MOIST CLAY - LITTLE SILT - STIFF - DAMP - STRONG H.C. ODOR.	CL			290						
				▼ WATER @ ~ 8 FEET										
			10.0	AS ABOVE - WET	CL									
			12.5	AS ABOVE - WET	CL									
			15.0	END OF BORING @ 15 FEET										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	NINE SPRINGS ENVIRONMENTAL CONSULTANTS, INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent

Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ■ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP		NSB-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: RICH Last Name: Firm: SOILS ENGINEERING SERVICES, INC.	05/27/1999 (mm/dd/yyyy)	05/27/1999 (mm/dd/yyyy)	DIRECT-PUSH

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City or Village
	DANE	13	MADISON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				GRAVEL										
			2.5	SILTY SAND, CLAY - BLACK - MOSTLY CLAY - SOME SILT/MED SAND - STIFF - DAMP - STRONG HC ODOR.	CL			224.9						
				BACKFILL MATERIAL - BROWN/BLACK - STRONG HC ODOR - FILL MATERIAL				2914						
			5.0	SILTY SAND - BROWN - MOSTLY MED-VF SAND - LITTLE SILT - DENSE - DAMP - STRONG HC ODOR	SM			2592						
				SILTY CLAY - BLACK - MOSTLY CLAY - LITTLE SILT - STIFF - DAMP - STRONG ODOR	CL			3228						
			7.5	WATER @ 5 FEET										
				END OF BORING @ 8 FEET	CL									
			10.0											
			12.5											
			15.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	NAE SPRUNG ENVIRONMENTAL CONSULTANTS, INC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ■ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP	_ _ _ _ _ _ _	NSB-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name RICH Last Name Firm: SORS ENGINEERING SERVICES, INC.	05/27/1999 (m m d d y y y y)	05/27/1999 (m m d d y y y y)	DIRECT-PUSH

Well Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
Lat ° ' "
Long ° ' "
Local Grid Location
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
	DANE	13	MADISON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
NSB-3(6')			0	GRAVEL SILTY CLAY - BLACK - MOSTLY CLAY - COHESIVE - STIFF - DAMP - STRONG HC ODOR	CL			37.4						
			2.5	SLAG/FILL MATERIAL - FILL/DEBRIS										
				SAND - BROWN - MED GRAINED - DENSE - DAMP - STRONG HC ODOR	SP			24.9						
			5.0	SILTY CLAY - BLACK - MOSTLY CLAY - SOME SILT - STIFF - DAMP - STRONG HC ODOR	CL			421.6						
				AS ABOVE - GREEN/GRAY	CL			1229						
			7.5	WATER @ 9 FEET				1145						
			10.0	AS ABOVE - WET	CL			1092						
			12.5	AS ABOVE - WET	CL									
				END OF BORING @ 14 FEET										
			15.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm NAME SORS ENVIRONMENTAL CONSULTANTS, INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent

Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP		NSB-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: RICH Last Name: Firm: SOILS ENGINEERING SERVICES, INC.	05/27/1999 (m m d d y y y y)	05/27/1999 (m m d d y y y y)	DIRECT-PUSH

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N | Lat ° ' " | Long ° ' "
Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W

Facility ID	County	County Code	Civil Town/City or Village
	DANE	13	MADISON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	GRAVEL										
			2.5	SILTY SANDY CLAY - BLACK - MOSTLY CLAY - LITTLE SILT/FINE SAND - STIFF - DAMP - STRONG ODOR. SLAG TYPE MATERIAL/DEBRIS	CL			67						
			5.0	SILTY SAND - BROWN - MOSTLY MEDIUM SAND - LITTLE SILT - DENSE DAMP - STRONG H.C. ODOR.	SM			1662						
			7.5	SILTY CLAY - GRAY/GREEN - MOSTLY CLAY - LITTLE SILT - STIFF - DAMP - STRONG H.C. ODOR. WATER @ ~ 7 FEET	CL			2914						
			10.0	END OF BORING @ 8 FEET				2607						
			12.5											
			15.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm NINE SPRINGS ENVIRONMENTAL CONSULTANTS, INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ■ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP	_ _ _ _ _ _ _ _	NSB-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: RICH Last Name:	05/27/1999 (m m d d y y y y)	05/27/1999 (m m d d y y y y)	DIRECT-PUSH
Firm: SOILS ENGINEERING SERVICES, INC.			

Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N | Lat ° ' " | Long ° ' "
Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W

Facility ID	County	County Code	Civil Town/City/ or Village
	DANE	13	MADISON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				GRAVEL										
			2.5	SILTY CLAY - BLACK - STIFF - MOIST - CLAY - SOME SILT AND GRAVEL	CL			0.0						
				SAND - BROWN - MEDIUM GRAINED - DENSE - DAMP - SLIGHT H.C. ODOR	SP			12.9						
			5.0	SILTY CLAY - GREY/GREEN - MOIST CLAY - SOME SILT - STIFF - DAMP - SLIGHT H.C. ODOR	CL			378						
			7.5	WATER @ 7 FEET				12.9						
				END OF BORING @ 8 FEET										
			10.0											
			12.5											
			15.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm NINE SPRINGS ENVIRONMENTAL CONSULTANTS, INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP	_____	NSB-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: RICH Last Name:	05/27/1999 (m m d d y y y y)	05/27/1999 (m m d d y y y y)	DIRECT-PUSH
Firm: SOILS ENGINEERING SERVICES, INC.			

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_____	_____		_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W
Lat 0 ' "
Long 0 ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
	DANE	13	MADISON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
SB-6(6) 12:50			2.5	GRAVEL SILTY CLAY - BLACK - MOSTLY CLAY - LITTLE SILT - NONCOHESIVE - STIFF - DAMP FILL - SLAG/TYPE MATERIAL - BLACK/DEBRIS. SILTY SAND - BROWN - MOSTLY MED. GRAINED - LITTLE SILT - DENSE - DAMP - SLIGHT ODOR SANDY CLAY - DARK GREEN - MOSTLY CLAY - LITTLE FINE SAND - STIFF - DAMP - SLIGHTLY ODOR CLAY - DARK GREEN/GREEN - STIFF - DAMP TO MOIST - NO ODOR WATER @ 7 FEET	CL SP CL CL			0.0 12.4 29.9 37.4						
			10	AS ABOVE - WET	CL									
			12.5	END OF BORING @ 12 FEET										
			15											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm NINE SPRINGS ENVIRONMENTAL CONSULTANTS, INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Any personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ■ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP		NSB-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: RICH Last Name:	05/27/1999 (m m d d y y y y)	05/27/1999 (m m d d y y y y)	DIRECT-PUSH
Firm: SOILS ENGINEERING SERVICES, INC.			

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W

Facility ID	County	County Code	Civil Town/City/ or Village
	DANE	13	MADISON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				GRAVEL										
			2.5	SILTY SAND/CLAY - BLACK - STIFF - MOSTLY CLAY - LITTLE SILT/SAND - BROWN - NO ODORS.	CL			0.0						
			5.0	FILL - SLAG/DEBRIS										
				SAND - BROWN - MED - CLAYEY - DAMP - DENSE/HARD	SP			0.0						
SB 7(6)				SILTY SAND/CLAY - BLACK - MOSTLY CLAY - LITTLE SILT/SAND - STIFF - DAMP - NO ODOR	CL			0.0						
			7.5	CLAY - BLACK - STIFF - DAMP TO MOIST - NO ODOR	CL			0.0						
				WATER @ 7 FEET										
				END OF BORING @ 8 FEET										
			10.0											
			12.5											
			15.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Nine Springs Environmental Consultants, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP	_ _ _ _ _ _ _	NSB-8

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: RICH Last Name: Firm: SOILS ENGINEERING SERVICES, INC.	05/27/1999 (m m d d y y y y)	05/27/1999 (m m d d y y y y)	DIRECT-PUSH

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N | Lat ° ' " | Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W

Facility ID	County	County Code	Civil Town/City/ or Village
	DANE	13	MADISON

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	GRAVEL										
				SILTY CLAY - BLACK - MOIST CLAY - SOME SILT - STIFF - DAMP - NO GRAVEL				0.0						
			2.5	SAND - BROWN - MED. GRAINED - DENSE - DAMP - NO GRAVEL				0.0						
SS-1 (6) 13:40			5.0	SILTY SANDY CLAY - GREEN/GREY - MOIST CLAY - SOME SILT AND MED. SAND - STIFF - DAMP - SLIGHT PLASTIC				12.4						
				▼ WATER @ 6.5 FEET										
			7.5	CLAY - GREENISH-GREY - STIFF - MOIST TO WET - SOME GRAVEL				1044						
SS-2 13:50			10.0	END OF BORING @ 10 FEET										
			12.5											
			15.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm NINE SPRINGS ENVIRONMENTAL CONSULTANTS, INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. The personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ■ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP		NSB-9

Boring Drilled By: Name of crew chief (first, last) and Firm
First Name RICH Last Name
Firm SCIENCE ENGINEERING SERVICES, INC.

Date Drilling Started	Date Drilling Completed	Drilling Method
05/27/1999 (m m d d y y y y)	05/27/1999 (m m d d y y y y)	DIRECT-PUSH

Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
Lat ° ' "
Long ° ' "
Local Grid Location
☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W

Facility ID	County	County Code	Civil Town/City/ or Village
	DANE	13	MADISON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				GRAVEL										
				FAT CLAY - BLACK - MOIST TO WET - SOME SILT - STIFF - PEAT - NO ODOR	CL			0.0						
			2.5	SAND - BROWN - MEDIUM GRAINED - DENSE - DRY - NO ODOR	SP			0.0						
			5.0	SILTY CLAY - GRAY/GREEN - MOIST TO WET - SOME SILT - STIFF - DAMP - NO ODOR	CL			0.0						
				AS ABOVE										
				WATER @ 6.5 FEET				0.0						
			7.5	AS ABOVE - WET	CL									
			10.0	AS ABOVE	CL									
			12.5	AS ABOVE	CL									
				END OF BORING @ 14 FEET.										
			15.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm NINE SPRINGS ENVIRONMENTAL CONSULTANTS, INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: DONDE, LLP	License/Permit/Monitoring Number: _ _ _ _ _ _ _ _	Boring Number: NSB-10
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: RICH Last Name: Firm: SORS ENGINEERING SERVICES, INC.	Date Drilling Started: 05/27/1999 (m m d d y y y y)	Date Drilling Completed: 05/27/1999 (m m d d y y y y)
		Drilling Method: DIRECT-PUSH
WI Unique Well No.: _ _ _ _ _ _ _	DNR Well ID No.: _ _ _ _	Well Name:
Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2.0 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E S/C/N	Lat ° ' " Long ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W		
Facility ID	County: DANE	County Code: 13
	Civil Town/City/ or Village: MADISON	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				GRAVEL										
				SILTY CLAY-BLACK-MOIST-CLAY-LITTLE SILT-STIFF-NO ODOR										
			2.5	SLAG/DEBRIS	CL			0.0						
				SAND-BROWN-MED GRAINED-DENSE-DAMP-NO ODOR	SP			0.0						
			5.0	SILTY CLAY-DARK GREEN-BECOMES CLAY-LITTLE SILT-STIFF-DAMP-NO ODORS	CL			0.0						
				WATER @ 6 FEET										
			7.5	END OF BORING @ 8 FEET	CL			0.0						
			10											
			12.5											
			15											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: NINE SPRINGS ENVIRONMENTAL CONSULTANTS, INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. The personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Department of Natural Resources

Form 3300-5B

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NSB-1

County: DANE

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft ☐ N. ☐ S., ___ ft ☐ E. ☐ W.

Civil Town Name: MADISON

Street Address of Well: 211 SOUTH PATTERSON STREET

City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: MR. DON WARREN, DONDE, LLP

Street or Route: 916 WILLIAMSON STREET

City, State, Zip Code: MADISON, WI 53703

Facility Well No. and/or Name (If Applicable)

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: SOIL BORING ONLY

Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify) DIRECT-PUSH

Formation Type:
■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ___ (From groundsurface)

Casing Diameter (in.) 2.0

Casing Depth (ft.) -

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☐ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials

For monitoring wells and monitoring well boreholes only

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite
☐ Bentonite Pellets
■ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface	15	19 lbs	

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work

CHRIS VALLEE - NINE SPRINGS ENVIRONMENTAL CONSULTING LLC

Signature of Person Doing Work	Date Signed
[signature]	5-27-99
Street or Route: 2817 FISH HATCHERY RD.	Telephone Number: (608) 273-9499
City, State, Zip Code: MADISON, WI 53713	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

Department of Natural Resources | Form 3300-5B | Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NSB-2

County: DANE

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name: MADISON

Street Address of Well: 211 SOUTH PATTERSON STREET

City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: MR. DON WARREN, DONDE, LLP

Street or Route: 916 WILLIAMSON STREET

City, State, Zip Code: MADISON, WI 53703

Facility Well No. and/or Name (If Applicable):

WI Unique Well No.: _ _ _ _ _ _ _

Reason For Abandonment: SOIL BORING ONLY

Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify) DIRECT-PUSH

Formation Type:
■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ____ (From groundsurface)

Casing Diameter (in.) 2.0

Casing Depth (ft.) ~

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) ____

Pump & Piping Removed?	☐ Yes	☐ No	☐ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ____

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials

For monitoring wells and monitoring well boreholes only

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite
☐ Bentonite Pellets
■ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface	8	10 lbs	

(8) Comments: ____

(9) Name of Person or Firm Doing Sealing Work: CHRIS VALLEE - NINE SPRINGS ENVIRONMENTAL CONSULTING LLC

Signature of Person Doing Work: [signature]

Date Signed: 5-27-99

Street or Route: 2817 FISH HATCHERY RD.

Telephone Number: (608) 273-9499

City, State, Zip Code: MADISON, WI 53713

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

Department of Natural Resources

Form 3300-5B

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NSB-3

County: DANE

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft ☐ N. ☐ S., ___ ft ☐ E. ☐ W.

Civil Town Name: MADISON

Street Address of Well: 211 SOUTH PATTERSON STREET

City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: MR. DON WARREN, DONDE, LLP

Street or Route: 916 WILLIAMSON STREET

City, State, Zip Code: MADISON, WI 53703

Facility Well No. and/or Name (If Applicable)

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: SOIL BORING ONLY

Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify) DIRECT-PUSH

Formation Type:

■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ___ (From groundsurface)

Casing Diameter (in.) 2.0

Casing Depth (ft.) ~

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☐ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials

For monitoring wells and monitoring well boreholes only

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite
☐ Bentonite Pellets
■ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface	14	16 lbs	

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work

CHRIS VALLEE - NINE SPRINGS ENVIRONMENTAL CONSULTING LLC

Signature of Person Doing Work	Date Signed
[signature]	5-27-99
Street or Route: 2817 FISH HATCHERY RD.	Telephone Number: (608) 273-9499
City, State, Zip Code: MADISON, WI 53713	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

Department of Natural Resources — Form 3300-5B — Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NSB-4

County: DANE

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W (If applicable)

___ Gov't Lot ___ Grid Number

Grid Location ___ ft ☐ N. ☐ S., ___ ft ☐ E. ☐ W.

Civil Town Name: MADISON

Street Address of Well: 211 SOUTH PATTERSON STREET

City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: MR. DON WARREN, DONDE, LLP

Street or Route: 916 WILLIAMSON STREET

City, State, Zip Code: MADISON, WI 53703

Facility Well No. and/or Name (If Applicable): WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: SOIL BORING ONLY

Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date): MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify): DIRECT-PUSH

Formation Type:
■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ___ (From groundsurface)

Casing Diameter (in.): 2.0

Casing Depth (ft.): -

Lower Drillhole Diameter (in.): 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed? ☐ Yes ☐ No ☐ Not Applicabl
Liner(s) Removed? ☐ Yes ☐ No ☐ Not Applicabl
Screen Removed? ☐ Yes ☐ No ☐ Not Applicable
Casing Left in Place? ☐ Yes ☐ No
If No, Explain ___

Was Casing Cut Off Below Surface? ☐ Yes ☐ No
Did Sealing Material Rise to Surface? ☐ Yes ☐ No
Did Material Settle After 24 Hours? ☐ Yes ☐ No
If Yes, Was Hole Retopped? ☐ Yes ☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes o[illegible]
☐ Bentonite Pellets
■ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface	8	10 lbs	

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work: CHRIS VALLE - NINE SPRINGS ENVIRONMENTAL CONSULTING LLC.

Signature of Person Doing Work: [signature] Date Signed: 5-27-99

Street or Route: 2817 FISH HATCHERY RD. Telephone Number: (608) 273-4499

City, State, Zip Code: MADISON, WI 53713

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

Department of Natural Resources

Form 3300-5B

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NSB-5

County: DANE

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft ☐ N. ☐ S., ___ ft ☐ E. ☐ W.

Civil Town Name: MADISON

Street Address of Well: 211 SOUTH PATTERSON STREET

City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: MR. DON WARREN, DONDE, LLP

Street or Route: 916 WILLIAMSON STREET

City, State, Zip Code: MADISON, WI 53703

Facility Well No. and/or Name (If Applicable):

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: SOIL BORING ONLY

Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify) DIRECT-PUSH

Formation Type:
■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ___ (From groundsurface)

Casing Diameter (in.) 2.0

Casing Depth (ft.) -

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☐ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only

☐ Bentonite Pellets
■ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface	8	10 lbs	

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work: CHRIS VALLEE - NINE SPRINGS ENVIRONMENTAL CONSULTING LLC.

Signature of Person Doing Work

Date Signed: 5-27-99

Street or Route: 2817 FISH HATCHERY RD.

Telephone Number: (608) 273-4499

City, State, Zip Code: MADISON, WI 53713

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

Form 3300-5B Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NSB-6

County: DANE

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable) ___ Gov't Lot ___ Grid Number

Grid Location ___ ft ☐ N. ☐ S., ___ ft ☐ E. ☐ W.

Civil Town Name: MADISON

Street Address of Well: 211 SOUTH PATTERSON STREET

City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: MR. DON WARREN, DONDE, LLP

Street or Route: 916 WILLIAMSON STREET

City, State, Zip Code: MADISON, WI 53703

Facility Well No. and/or Name (If Applicable) | WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: SOIL BORING ONLY

Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify) DIRECT-PUSH

Formation Type:
■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ___ (From groundsurface)

Casing Diameter (in.) 2.0

Casing Depth (ft.) -

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed? ☐ Yes ☐ No ☐ Not Applicabl
Liner(s) Removed? ☐ Yes ☐ No ☐ Not Applicable
Screen Removed? ☐ Yes ☐ No ☐ Not Applicable
Casing Left in Place? ☐ Yes ☐ No
If No, Explain ___

Was Casing Cut Off Below Surface? ☐ Yes ☐ No
Did Sealing Material Rise to Surface? ☐ Yes ☐ No
Did Material Settle After 24 Hours? ☐ Yes ☐ No
If Yes, Was Hole Retopped? ☐ Yes ☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
■ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface	12	14 lbs	

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work: CHRIS VALLEE - NINE SPRINGS ENVIRONMENTAL CONSULTING LLC.

Signature of Person Doing Work: [signature] Date Signed: 5-27-99

Street or Route: 2817 FISH HATCHERY RD. Telephone Number: (608) 273-9499

City, State, Zip Code: MADISON, WI 53713

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

Department of Natural Resources

Form 3300-5B

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NSB 7

County: DANE

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft ☐ N. ☐ S., ___ ft ☐ E. ☐ W.

Civil Town Name: MADISON

Street Address of Well: 211 SOUTH PATTERSON STREET

City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: MR. DON WARREN, DONDE, LLP

Street or Route: 916 WILLIAMSON STREET

City, State, Zip Code: MADISON, WI 53703

Facility Well No. and/or Name (If Applicable) | WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: SOIL BORING ONLY

Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify) DIRECT-PUSH

Formation Type:

■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ___ (From groundsurface)

Casing Diameter (in.) 2.0

Casing Depth (ft.) -

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☐ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only

☐ Bentonite Pellets
■ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface	8	10 lbs	

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work: CHRIS VALLEE - NINE SPRINGS ENVIRONMENTAL CONSULTING, LLC.

Signature of Person Doing Work: [signature] | Date Signed: 5-27-99

Street or Route: 2817 FISH HATCHERY RD. | Telephone Number: (608) 273-9499

City, State, Zip Code: MADISON, WI 53713

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NSB-8

County: DANE

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft ☐ N. ☐ S., ___ ft ☐ E. ☐ W.

Civil Town Name: MADISON

Street Address of Well: 211 SOUTH PATTERSON STREET

City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: MR. DON WARREN, DONDE, LLP

Street or Route: 916 WILLIAMSON STREET

City, State, Zip Code: MADISON, WI 53703

Facility Well No. and/or Name (If Applicable):

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: SOIL BORING ONLY

Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify) DIRECT-PUSH

Formation Type:

■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ___ (From groundsurface)

Casing Diameter (in.) 2.0

Casing Depth (ft.) -

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☐ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only

☐ Bentonite Pellets
■ Granular Bentonite
☐ Bentonite - Cement Grout

(7)

Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface	10	12 lbs	

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work: CHRIS VALLE - NINE SPRINGS ENVIRONMENTAL CONSULTING LLC

Signature of Person Doing Work: [signature]

Date Signed: 5-27-99

Street or Route: 2817 FISH HATCHERY RD.

Telephone Number: (608) 273-9499

City, State, Zip Code: MADISON, WI 53713

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

Department of Natural Resources | Form 3300-5B | Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NSB-9

County: DANE

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name: MADISON

Street Address of Well: 211 SOUTH PATTERSON STREET

City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: MR. DON WARREN, DONDE, LLP

Street or Route: 916 WILLIAMSON STREET

City, State, Zip Code: MADISON, WI 53703

Facility Well No. and/or Name (If Applicable):

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: SOIL BORING ONLY

Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify) DIRECT-PUSH

Formation Type:
■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ___ (From groundsurface)

Casing Diameter (in.) 2.0

Casing Depth (ft.) -

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☐ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only

☐ Bentonite Pellets
■ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface	14	16 lbs	

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work: CHRIS VALLE - NINE SPRINGS ENVIRONMENTAL CONSULTING, LLC

Signature of Person Doing Work: [signature] | Date Signed: 5-27-99

Street or Route: 2817 FISH HATCHERY RD. | Telephone Number: (608) 273-9499

City, State, Zip Code: MADISON, WI 53713

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: NSB-10
County: DANE
___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W (If applicable)
___ Gov't Lot ___ Grid Number
Grid Location ___ ft ☐ N. ☐ S., ___ ft ☐ E. ☐ W.
Civil Town Name: MADISON
Street Address of Well: 211 SOUTH PATTERSON STREET
City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known)
Present Well Owner: MR. DON WARREN, DONDE, LLP
Street or Route: 916 WILLIAMSON STREET
City, State, Zip Code: MADISON, WI 53703
Facility Well No. and/or Name (If Applicable)
WI Unique Well No.: _ _ _ _ _ _
Reason For Abandonment: SOIL BORING ONLY
Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On
(Date) MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify) DIRECT-PUSH

Formation Type:
■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ___ (From groundsurface)
Casing Diameter (in.) 2.0
Casing Depth (ft.) ~

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☐ Not Applicabl
Liner(s) Removed?	☐ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
■ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface	8	10 lbs	

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work: CHRIS VALLEE - NINE SPRINGS ENVIRONMENTAL CONSULTING INC.
Signature of Person Doing Work
Date Signed: 5-27-99
Street or Route: 2817 FISH HATCHERY RD.
Telephone Number: (608) 273-4499
City, State, Zip Code: MADISON, WI 53713

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5B
Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: DANE

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name: MADISON

Street Address of Well: 211 SOUTH PATTERSON STREET

City, Village: MADISON

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: MR. DON WARREN, DONDE, LLP

Street or Route: 916 WILLIAMSON STREET

City, State, Zip Code: MADISON, WI 53703

Facility Well No. and/or Name (If Applicable)

WI Unique Well No. _ _ _ _ _ _ _

Reason For Abandonment: SOIL BORING ONLY

Date of Abandonment: MAY 27, 1999

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) MAY 27, 1999

☐ Monitoring Well
☐ Water Well
☐ Drillhole
■ Borehole

Construction Report Available? ☐ Yes ■ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
■ Other (Specify) DIRECT-PUSH

Formation Type:
■ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) ___ (From groundsurface)

Casing Diameter (in.) 2.0

Casing Depth (ft.) ~

Lower Drillhole Diameter (in.) 2.0

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) ___

Pump & Piping Removed?	☐ Yes	☐ No	☐ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only

☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
GRANULAR BENTONITE	Surface			

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work

CHRIS VALLEE - NINE SPRINGS ENVIRONMENTAL CONSULTING, LLC

Signature of Person Doing Work | Date Signed

Street or Route: 2817 FISH HATCHERY RD.

Telephone Number: (608) 273-9499

City, State, Zip Code: MADISON, WI 53713

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ■ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP		

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: RICH Last Name: Firm: SOILS ENGINEERING SERVICES, INC.	05/27/1999 (m m d d y y y y)	05/27/1999 (m m d d y y y y)	DIRECT-PUSH

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W

Lat ° ' "
Long ° ' "

Local Grid Location
☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	DANE	13	MADISON

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			2.5											
			5.0											
			7.5											
			10.0											
			12.5											
			15.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature | Firm

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

APPENDIX E

Soil Boring Logs, Well Construction Forms, and Well Development Forms

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: DANDE, LLP	License/Permit/Monitoring Number: _ _ _ _ _ _ _	Boring Number: MW-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: KEVIN Last Name: McCUMBER Firm: BADGER STATE DRILLING, INC.	Date Drilling Started: 04/09/2001 (m m d d y y y y)	Date Drilling Completed: 04/09/2001	Drilling Method: HOLLOW-STEM AUGER
WI Unique Well No.: PB168	DNR Well ID No.: _ _ _ _ _	Well Name: MW-1	Final Static Water Level: _____ Feet MSL
Surface Elevation: _____ Feet MSL	Borehole Diameter: 6.0 inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E S/C/N	Lat ° ' " Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W	
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W			
Facility ID	County: DANE	County Code: 13	Civil Town/City/or Village: MADISON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	GRASS/TOPSOIL										
				FILL										
			5	BLACK - SLAG MATERIAL - SAND - CLAY - SILT NO ODOR	FILL									
				WATER BETWEEN 8-10 FEET BGS.										
			10	CLAYEY SANDY SILT - BLACK - MOSTLY SILT SOME CLAY AND FINE SANDS - STIFF - WET SLIGHT ODOR	CL									
			15	END OF BORING @ 15 FEET BGS.										
			20											
			25											
			30											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: BT², INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information. Mailing where the completed form should be sent.

Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP	_ _ _ _ _ _ _ _	MW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: KEVIN Last Name: McCUMBER Firm: BADGER STATE DRILLING, INC.	04/09/2001 (m m d d y y y y)	04/09/2001 (m m d d y y y y)	HOLLOW-STEM AUGER

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PB1677	_ _ _	MW-2	_____ Feet MSL	_____ Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	DANE	13	MADISON

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				ASPHALT/GRAVEL										
			5	SLAG FILL MATERIAL	FILL									
				▼ WATER @ 9 FEET										
			10	CLAYEY SANDY SILT - GREYISH BLACK - MOSTLY SILT - SOME CLAY AND MED. SAND STIFF - WET - SLIGHT ODOR	CL									
			15	END OF BORING @ 15 FEET										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm BT², INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONDE, LLP		MW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: KEVIN Last Name: MCCUMBER Firm: BADGER STATE DRILLING, INC	04/09/2001	04/09/2001	HOLLOW STEM AUGER

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PB169		MW-3	_____ Feet MSL	_____ Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	DANE	13	MADISON

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			5	GRAVEL FILL - BLACK SLAG - SILT - SAND/DEBRIS FILL	FILL									
			10	▼ WATER @ ~8-10' SILTY SAND - BROWN - MOSTLY FINE TO MED GRAINED SAND - SOME SILT - WET - DENSE - NO ODOR	SM									
			15	END OF BORING @ 15 FEET BGS.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	BT², Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONOE, LLP	_ _ _ _ _ _ _ _	MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: KEVIN Last Name: McCUMBER Firm: BADGER STATE DRILLING, INC.	04/09/2001 (mm/dd/yyyy)	04/09/2001 (mm/dd/yyyy)	HOLLOW-STEM AUGER

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PB166	_ _ _ _	MW-4	_____ Feet MSL	_____ Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	DANE	13	MADISON

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	ASPHALT/GRAVEL SILTY SANDY FILL - BROWN	FILL									
			5											
				▼ WATER @ 8-10 FEET BGS.										
			10	CLAYEY SANDY SILT - GREYISH BLACK MOSTLY SILT - SOME CLAY AND FINE SAND - STIFF - WET - STRONG ODOR	CL									
			15	END OF BORING @ 15 FEET										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	BT², INC.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
DONOGH, LLP		PZ-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: KEVIN Last Name: McCUMBER Firm: BADGER STATE DRILLING, INC.	04/09/2001	04/09/2001	HOLLOW STEM AUGER

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
PB165		PZ-1	_____ Feet MSL	_____ Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
Lat ° ' "
Long ° ' "
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	DANE	13	MADISON

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	ASPHALT/GRAVEL										
			5	SILTY SANDY FILL - BROWN	FILL									
			▼	WATER ~ 8-10 FEET										
			10	CLAYEY SANDY SILT - GREYISH BLACK - MOSTLY SILT - SOME CLAY AND FINE GRAINED SAND - STIFF - WET - STRONG ODOR	CL									
			15											
			20											
			25	SILTY CLAYEY SAND - GREY - FINE GRAINED - SOME CLAY/SILT - DENSE - WET - STRONG ODOR	SM									
			30	END OF BORING @ 30 FEET										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	BT², Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: DONOE, LLP	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PB168 / DNR Well ID No.:
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 09/09/2001 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: KEVIN McCUMBER / BADGER STATE DRILLING, INC.
Distance from Waste/Source: _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.

F. Fine sand, top _____ ft. MSL or 2.0 ft.

G. Filter pack, top _____ ft. MSL or 3.0 ft.

H. Screen joint, top _____ ft. MSL or 5.0 ft.

I. Well bottom _____ ft. MSL or 15.0 ft.

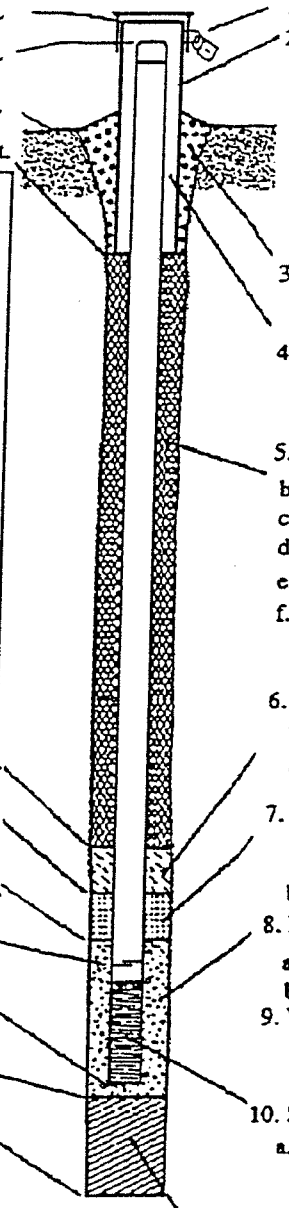
J. Filter pack, bottom _____ ft. MSL or 15.0 ft.

K. Borehole, bottom _____ ft. MSL or 15.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 12.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____

4. Material between well casing and protective pipe:
Bentonite ☒ 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 35
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 36
d. _____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. 1 BAG Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 34
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. #40/60 OTTO
b. Volume added 1 BAG ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. #5 OTTO
b. Volume added 5 BAGS ft³

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: ~~[illegible]~~ PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer MONOFLEX
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm BJ², Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTIO
Form 4400-113A Rev. 7-98

Facility/Project Name: Donde, LLP	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PB167 / DNR Well ID No.: ____
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 04/09/2001 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec, ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Kevin McLumber, Badger State Drilling
Distance from Waste/Source: _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

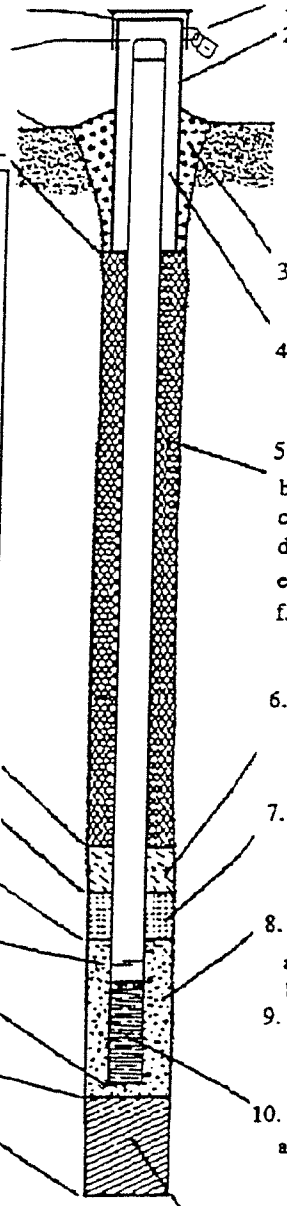
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ _____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.
F. Fine sand, top _____ ft. MSL or 2.0 ft.
G. Filter pack, top _____ ft. MSL or 3.0 ft.
H. Screen joint, top _____ ft. MSL or 5.0 ft.
I. Well bottom _____ ft. MSL or 15.0 ft.
J. Filter pack, bottom _____ ft. MSL or 15.0 ft.
K. Borehole, bottom _____ ft. MSL or 15.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.25 in.
N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 10.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 04; Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30; Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1 BAG Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. #40/60 OHO
b. Volume added 1 BAG ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. #5 OHO
b. Volume added 6 BAGS ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ _____
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ _____
b. Manufacturer MONOFLEX
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: BT², Inc

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTIO

Form 4400-113A Rev. 7-98

Facility/Project Name: Dodge, LLP	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or	Wis. Unique Well No.: PB169 / DNR Well ID N: ___
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 04/09/2001 (m m d d y y y y)
Type of Well: Well Code ___/___	Section Location of Waste/Source: ___ 1/4 of ___ 1/4 of Sec, ___ T. ___ N, R ___ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Kevin McCumber / Badger State Drilling
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.

F. Fine sand, top _____ ft. MSL or 2.0 ft.

G. Filter pack, top _____ ft. MSL or 3.0 ft.

H. Screen joint, top _____ ft. MSL or 5.0 ft.

I. Well bottom _____ ft. MSL or 15.0 ft.

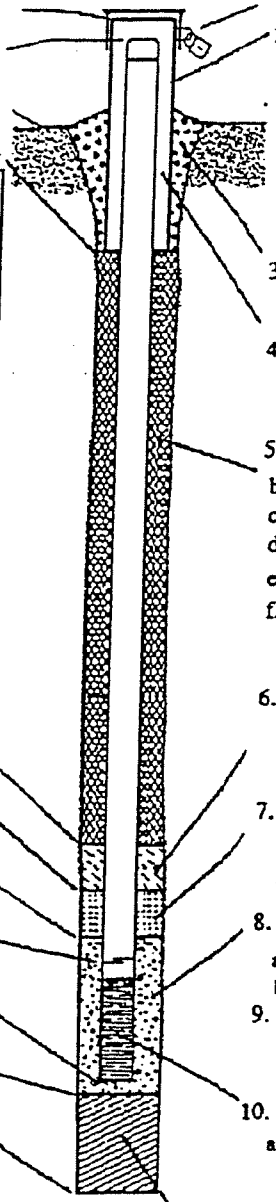
J. Filter pack, bottom _____ ft. MSL or 15.0 ft.

K. Borehole, bottom _____ ft. MSL or 15.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ N

2. Protective cover pipe:
a. Inside diameter: 8.0 in
b. Length: 5.0
c. Material: Steel ☒ 04
Other ☐ _____
d. Additional protection? ☐ Yes ☒ N
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30
Concrete ☐ 01
Other ☐ _____

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 3
d. _____ % Bentonite ..... Bentonite-cement grout ☐ 5
e. 1 BAG Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 06

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 34
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. #40/60 Ohio
b. Volume added 1 BAG ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #5 Ohio
b. Volume added 5 BAGS ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 00
Other ☐ _____
b. Manufacturer MONOFLEX
c. Slot size: 0.010 in
d. Slotted length: 10.0 ft

11. Backfill material (below filter pack): None ☒ 14
Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm BT^2 Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: DONDE, LLP	Local Grid Location of Well: _____ ft ☐N ☐S _____ ft ☐E ☐W	Well Name: MW-4
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PB166 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 04/09/2001 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: KEVIN McCUMBER, BADGER STATE DRILLING, INC.
Distance from Waste/Source: _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.
F. Fine sand, top _____ ft. MSL or 2.0 ft.
G. Filter pack, top _____ ft. MSL or 3.0 ft.
H. Screen joint, top _____ ft. MSL or 5.0 ft.
I. Well bottom _____ ft. MSL or 15.0 ft.
J. Filter pack, bottom _____ ft. MSL or 15.0 ft.
K. Borehole, bottom _____ ft. MSL or 15.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.25 in.
N. I.D. well casing 2.00 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 10.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. _____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. 1 BAG Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. #40/60 OHIO
b. Volume added 1 BAG ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. #5 OHIO
b. Volume added 1 BAG ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____
10. Screen material: ~~MONOFLEX~~ PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer MONOFLEX
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm BT2, INC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: DONDE, LLP	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: PZ-1	
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: PB165	DNR Well ID No.:
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 04/09/2001 (m m d d y y y y)	
Type of Well: Well Code ____/____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and F: KEVIN McCUMBER, BADGER STATE DRILLING, IN	
Distance from Waste/Source: _____ ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 21.0 ft.

F. Fine sand, top _____ ft. MSL or 22.0 ft.

G. Filter pack, top _____ ft. MSL or 23.0 ft.

H. Screen joint, top _____ ft. MSL or 25.0 ft.

I. Well bottom _____ ft. MSL or 30.0 ft.

J. Filter pack, bottom _____ ft. MSL or 30.0 ft.

K. Borehole, bottom _____ ft. MSL or 30.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2.00 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 10.0 in
b. Length: 1.0 ft
c. Material: Steel ☒ 04 Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 Concrete ☒ 0 Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 35
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 36
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 5 BAGS Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. OHIO #40/60
b. Volume added 1 BAGS ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. OHIO #5
b. Volume added 3 BAGS ft³

9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ _____
b. Manufacturer MANOFLEX
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☒ 14 Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm BT², Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
DONDE, LLP	DANE	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	13	PB168	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☒	50
Other _____	☐	

3. Time spent developing well ___90___ min.

4. Depth of well (from top of well casisng) ___14.5___ ft.

5. Inside diameter of well ___2.00___ in.

6. Volume of water in filter pack and well casing ___3.8___ gal.

7. Volume of water removed from well ___12.0___ gal.

8. Volume of water added (if any) ___0.0___ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 10.80 ft.	10.85 ft.
Date	b. 04/09/2001 (m m d d y y y y)	04/09/2001
Time	c. 12:00 ☐ a.m. ☒ p.m.	13:30 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	BLACK/SILTY	TRANSLUCENT
	STRONG ODOR	STRONG ODOR

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: CHRIS Last Name: VAHLE
Firm: BT², INC.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: DON Last Name: WARREN
Facility/Firm: DONDE, LLP
Street: 211 S. PATERSON STREET
City/State/Zip: MADISON, WI 53703

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: C. H. V. Vahle
Print Name: CHRIS VAHLE
Firm: BT², INC.

NOTE: See instructions for more information including a list of county codes and well type codes.

Department of Natural Resources

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
DONDE, LLP	DANE	MW-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	13	PB167	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☒ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☒ 50
Other _____	☐

3. Time spent developing well 75 min.

4. Depth of well (from top of well casisng) 14.0 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 4.2 gal.

7. Volume of water removed from well 18.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No (If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 9.87 ft.	9.89 ft.
Date	b. 04/09/2001 (mm/dd/yyyy)	04/09/2001
Time	c. 10:45 ☒ a.m. ☐ p.m.	12:00 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) BROWN/SILTY	Clear ☒ 20 Turbid ☐ 25 (Describe) CLEAR

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids ____.__ mg/l ____.__ mg/l

15. COD ____.__ mg/l ____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: CHRIS Last Name: VAHLE
Firm: BT², INC.

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: DON Last Name: WARREN
Facility/Firm: DONDE, LLP
Street: 211 S. PATERSON STREET
City/State/Zip: MADISON, WI 53703

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: CHRIS VAHLE
Firm: BT², INC.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
DONDE, LLP	DANE	MW-3

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	13	PB169	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☒	50
Other _____	☐	

3. Time spent developing well 90 min.

4. Depth of well (from top of well casisng) 16.4 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 5.9 gal.

7. Volume of water removed from well 20.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 10.63 ft.	10.70 ft.
Date	b. 04/09/2001 (mm/dd/yyyy)	04/09/2001 (mm/dd/yyyy)
Time	c. 13:30 ☐ a.m. ☒ p.m.	15:00 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	4.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) BROWN/SILTY	Clear ☒ 20 Turbid ☐ 25 (Describe) TRANSLUCENT
14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: CHRIS Last Name: VAHLE
Firm: BT², INC.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: DON Last Name: WARREN
Facility/Firm: DONDE, LLP
Street: 211 S. PATERSON STREET
City/State/Zip: MADISON, WI 53703

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: CHRIS VAHLE
Firm: BT², INC.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Donde LLP BT2 #1952	Dane	MW4

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	13	PB166	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development

surged with bailer and bailed	☒ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other_____	☐

3. Time spent developing well 60 min.

4. Depth of well (from top of casing) 14.7 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 4.1 gal.

7. Volume of water removed from well 6.0 gal.

8. Volume of water added (if any) none gal.

9. Source of water added _____

10. Analysis performed on water added? (if yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	10.48 ft.	10.51 ft.
Date b.	05/02/2001 (mm dd yyyy)	05/02/2001 (mm dd yyyy)
Time c.	9:05 ☒ a.m ☐ p.m	1:30 ☐ a.m ☒ p.m
12. Sediment in well bottom	00.0 inches	00.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☐ 20 Turbid ☒ 25
(Describe)	fuel odor, brown, very turbid	fuel odor, brown, very turbid

Fill in if drilling fluids were used and well is at solid waste facility

14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well Developed by: Name (first, last) and Firm
First Name: Geoff Last Name: Prior
Firm: BT2, Inc.

17. Additional comments on development:

0.4' of product on top of water table
Bails dry at 3½ gallons
Recovers 3' in 10 minutes.

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Don Last Name: Warren
Firm: Donde, LLP
Street: 211 South Paterson St
City/State/Zip: Madison, WI 53703

I hereby certify that the above information is true and correct to th best of my knowledge.
Signature: _____
Print Name Geoff Prior
Firm: BT², Inc., 2830 Dairy Drive, Madison, WI 53704-6751

See instructions for more information including a list of county codes and well types.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Dorsde, LLP	DANE	PZ-1
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	13	PB165	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☒	50
Other _____	☐	

3. Time spent developing well 105 min.

4. Depth of well (from top of well casisng) 28.9 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 19.0 gal.

7. Volume of water removed from well 40.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 10.25 ft.	10.50 ft.
Date	b. 04/09/2001 (m m d d y y y y)	04/09/2001 (m m d d y y y y)
Time	c. 09:00 ☒ a.m. ☐ p.m.	10:45 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)
	BROWN/SILTY	MARKEDLY CLEAR
14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: CHRIS Last Name: VAHLE
Firm: BT², Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: DON Last Name: WARREN
Facility/Firm: DORSDE, LLP
Street: 211 S. PATTERSON STREET
City/State/Zip: MADISON, WI 53703

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Chris Vahle
Print Name: CHRIS VAHLE
Firm: BT², Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.